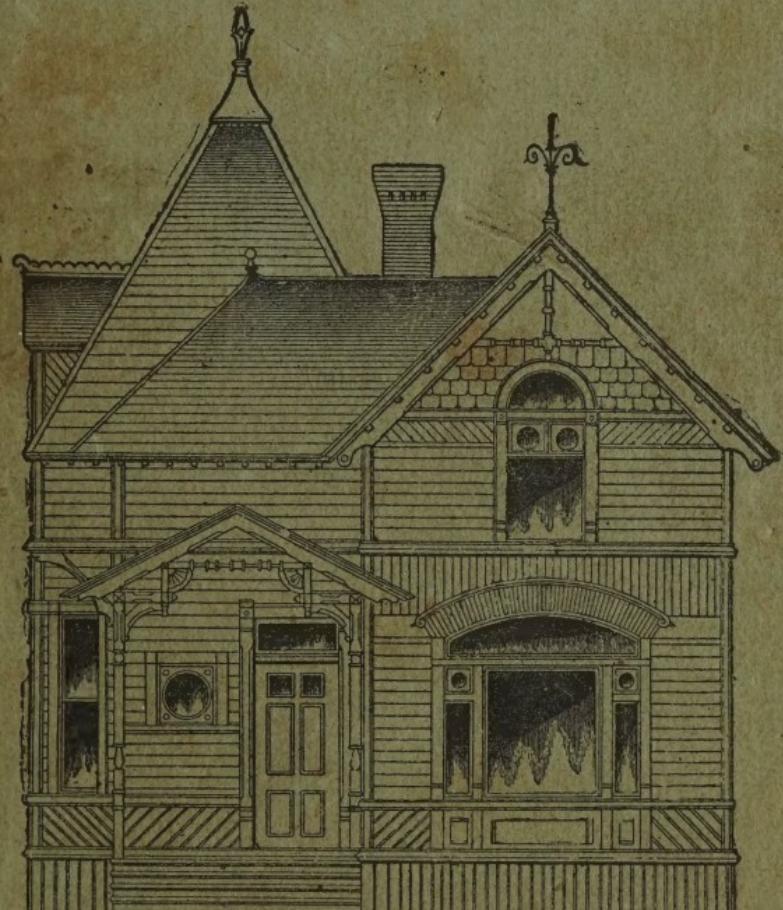


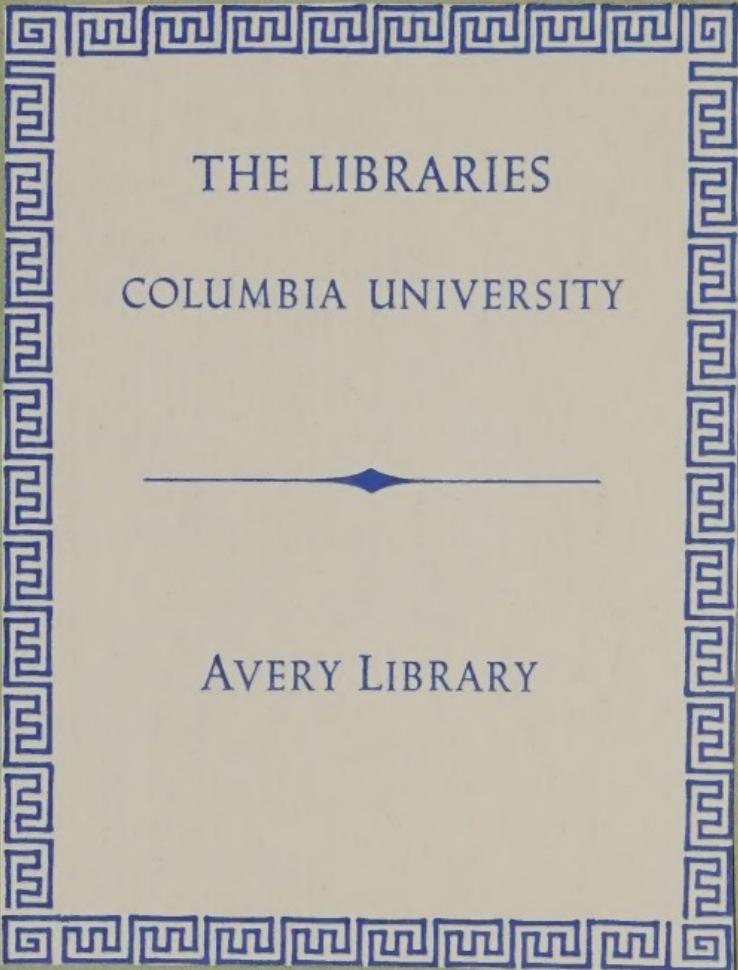
# HOW TO BUILD HOUSES

CONTAINING FORTY HOUSE, CHURCH AND BARN  
PLANS, WITH COMPLETE SPECIFICATIONS.



Front Elevation

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# HOW TO BUILD HOUSES

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## HOUSE BUILDING DEPARTMENT.

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### PLANS AND SPECIFICATIONS.

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### HINTS TO BUILDERS.

It seems to be a natural instinct with every one to desire to own his own home. There is a charm in the word "home" that can be felt only by those who do own their own houses. No matter how poor a man may be, if he can go *home* at night after his day's work is finished, there is a feeling of rest and security that amply repays any privations that may have been suffered in order to secure and pay for a home. In the succeeding pages we present designs for a large number of houses that will be found in every way suitable for any part of the country. They have been most carefully selected with a view to suiting all classes and tastes. For the hand-some designs Nos. 4, 9, 17, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, we are indebted to the kindness of *The National Builder*. Full detail working plans of these houses may be obtained from The National Builder Company, No. 116 LaSalle street, Chicago, Ill., by remitting the small sum of 25 cents each. We desire that all who purchase this book should understand why we do not give the price of each house. Some books on architecture advertise to do this. We have left out the cost of the different houses for the reason that the cost of lumber, material and labor, differs so greatly in different parts of the country, that a sum which would be the cost price of any particular house in Illinois, would differ very greatly from the cost of the same house in Missouri. It will be an easy matter to

take the specifications we supply, to any lumber merchant, and get an estimate on the quantity required, according to the quality. We shall now proceed to give a few valuable hints to those contemplating building, and to those owning and living in their own homes. As "brevity is the soul of wit," we shall make these 'hints' as brief as possible and to the point.

Build within your means. It is better to build a plain house *and pay for it*, than one that will keep you in hot water till it is paid for. It is an easy matter to add improvements to a house as they appear necessary and you can afford it.

Do not copy your neighbor's house. It will almost surely cause unpleasantness, and you will always find it more agreeable to be on good terms with your neighbor. See to it that your house is built so that you get plenty of ventilation and sunshine. Nothing is more important. Be sure and arrange to have the living-rooms on the sunny side. It is both pleasanter and healthier. Do not have stationary wash-bowls in sleeping-rooms.

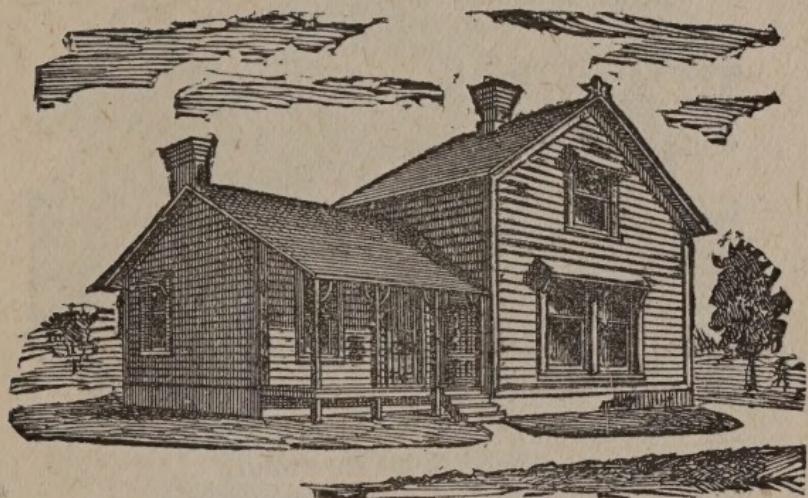
Be sure and arrange your house so that at any future time it may be readily enlarged with additions at the least expense. This is an important item.

Do not fail to have a legal contract, covering every detail, drawn up and signed by your contractor and builder, and properly witnessed. A proper observance of this may save you a great deal of trouble and many dollars. Do not attempt to vie with rich neighbors. Do not sacrifice comfort for the sake of appearances. You will certainly suffer for it in the long run.

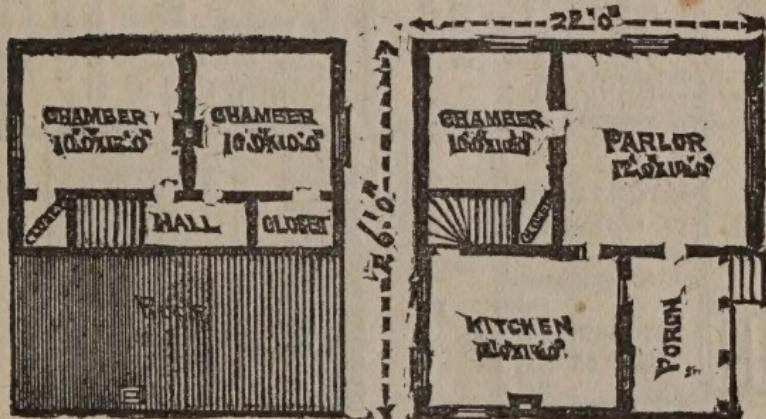
Do not have gingerbread work in or upon the house, nor allow poor work or shams of any kind to enter into its construction.

Arrange to have large rooms. They will give much better satisfaction than small rooms and more of them.

## DESIGN No. 1.

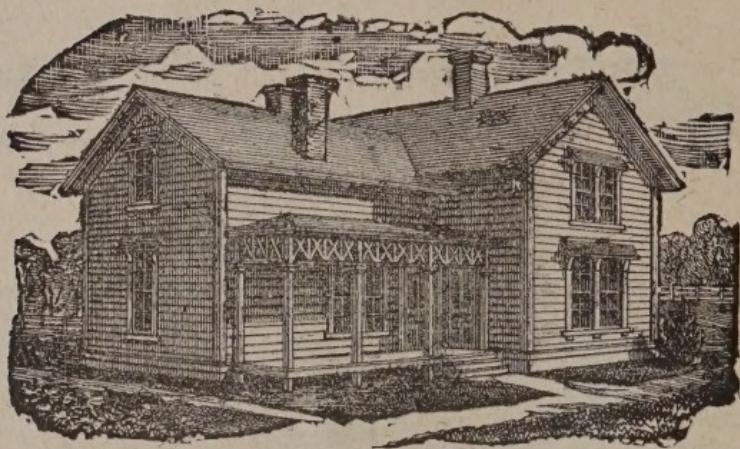
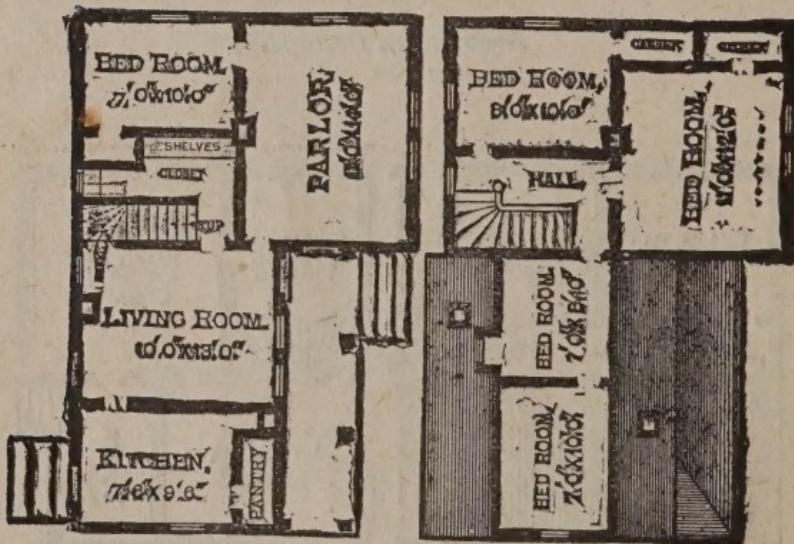


*Five Room Cottage.*

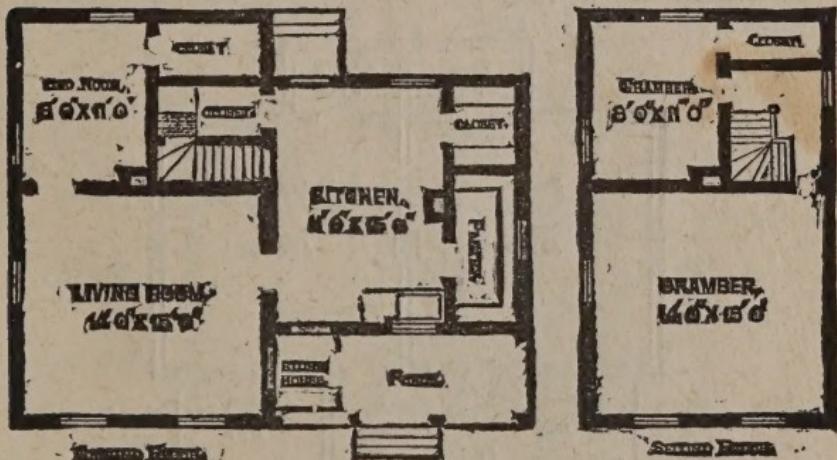


*Very Cheap and Comfortable.*

## DESIGN No. 2.

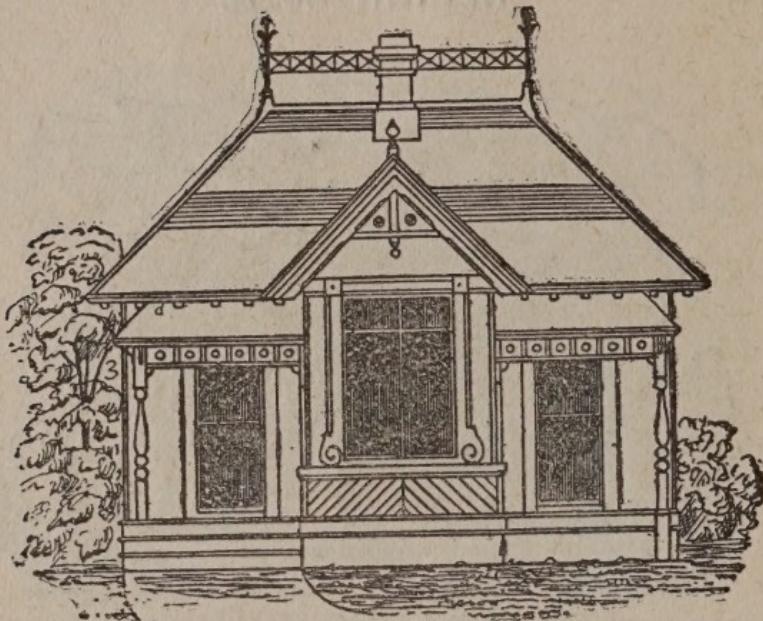
*Eight Room Dwelling,**Suitable for Farm or Village.*

## DESIGN No. 3.

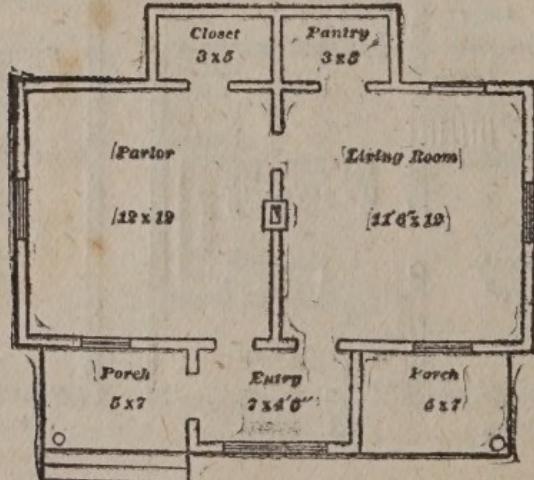


*A very convenient Five Room Cottage.*

## DESIGN No. 4.



FRONT ELEVATION.

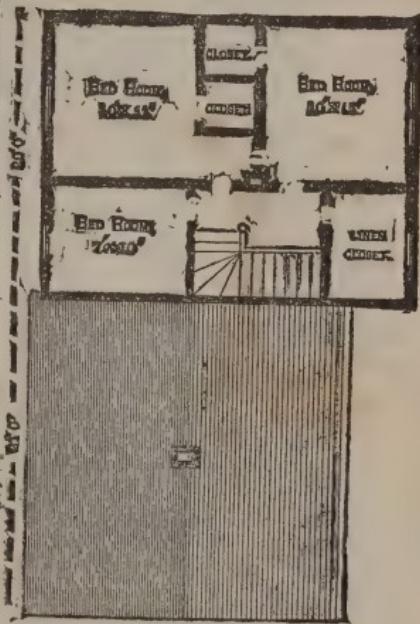
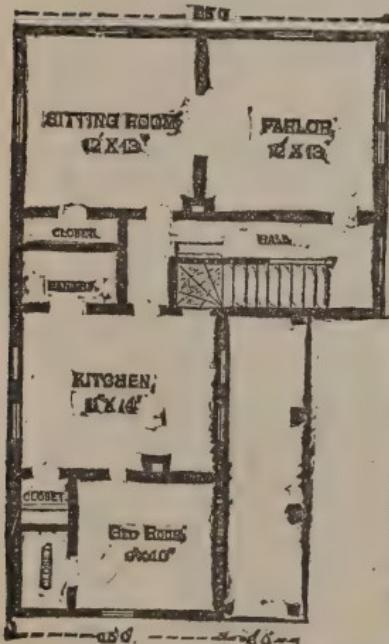


FLOOR PLAN.

A Convenient and Cheap Cottage.

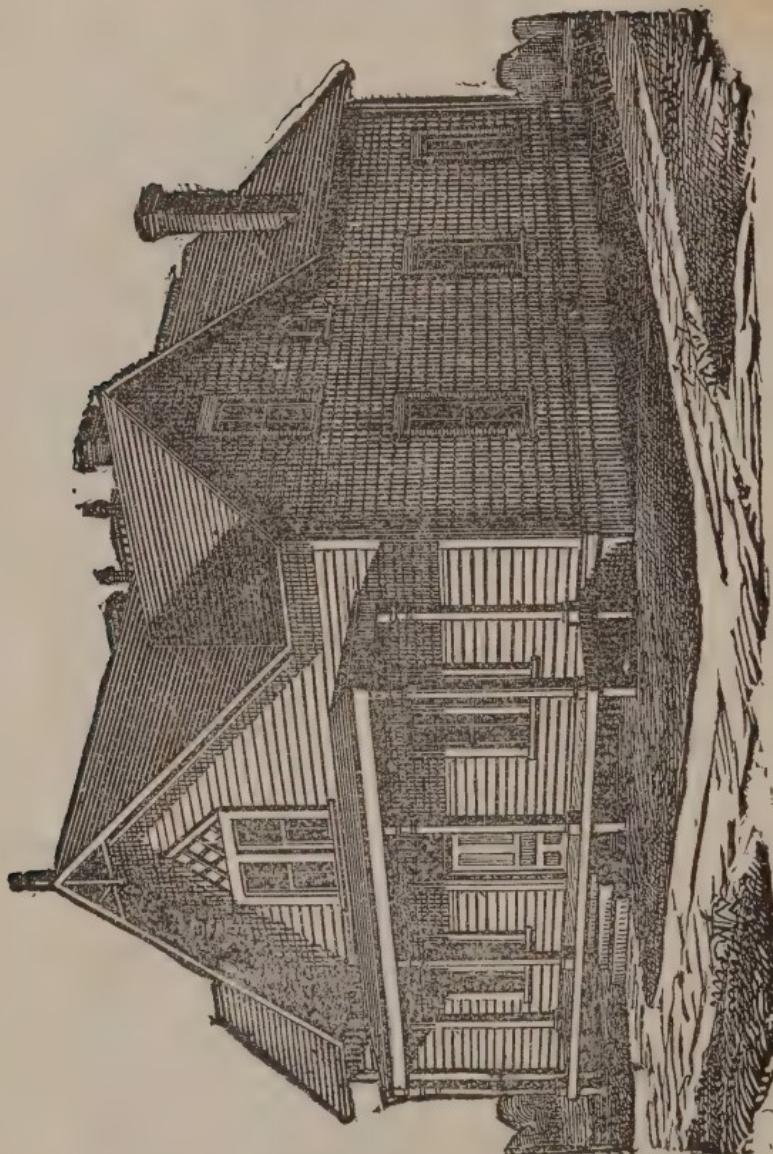
Size — 21½ feet deep, 25 feet wide.

## DESIGN No. 5.



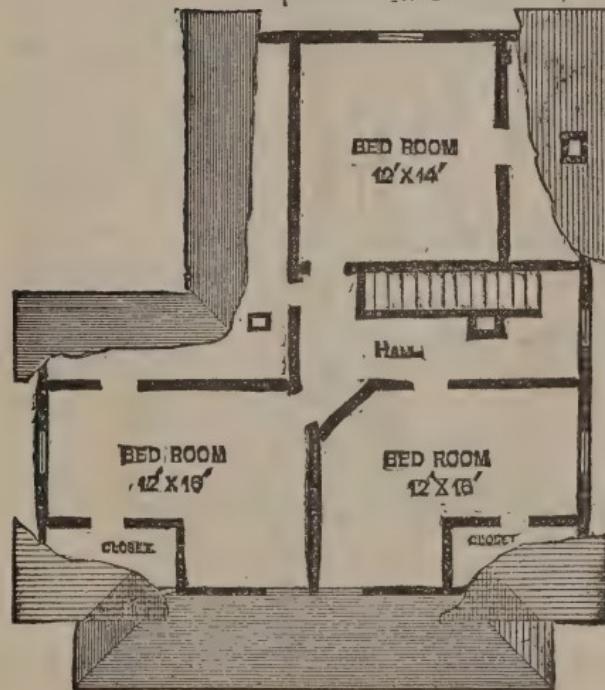
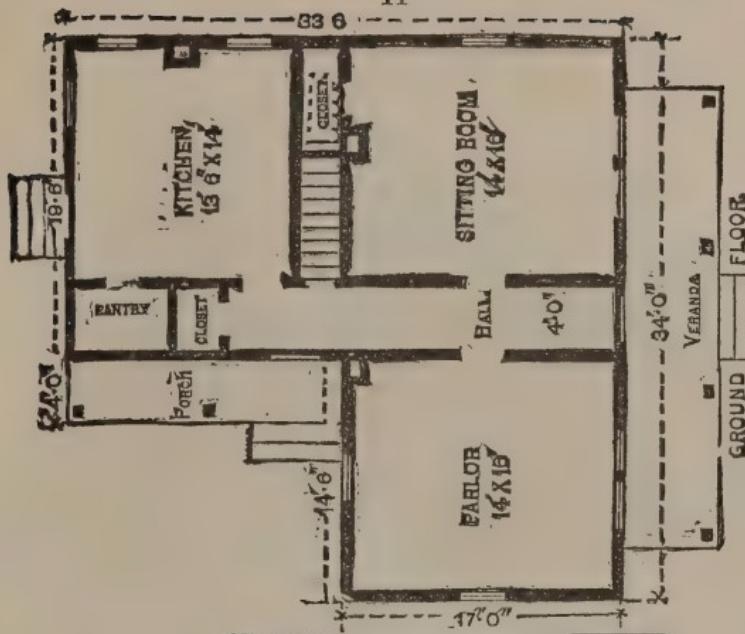
*An attractive and convenient Eight Room Cottage.*

## DESIGN No. 6.



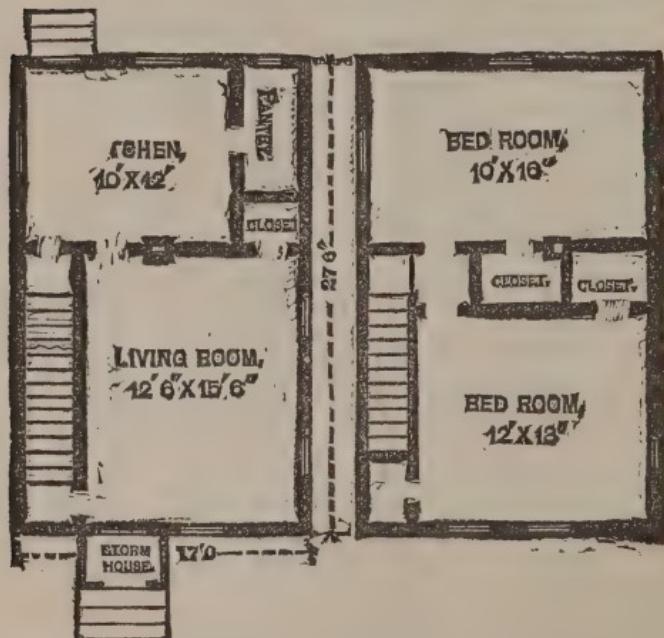
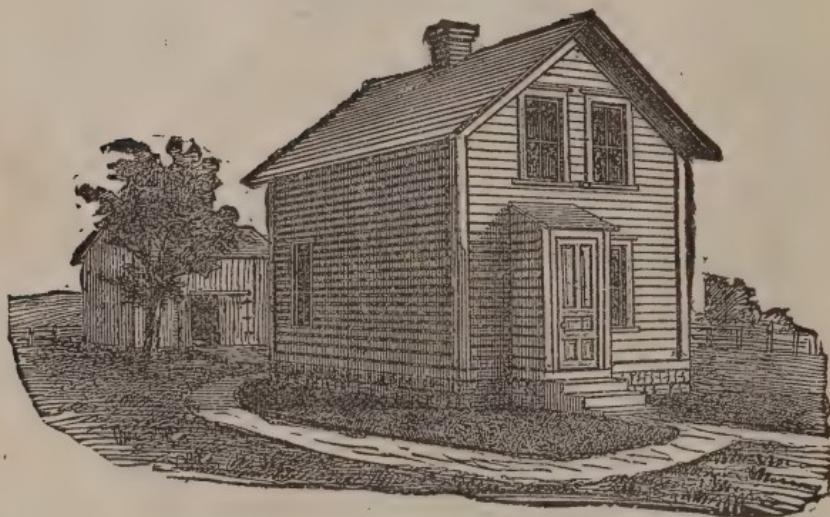
*A convenient Six Room House.*

(See Plans on next page.)



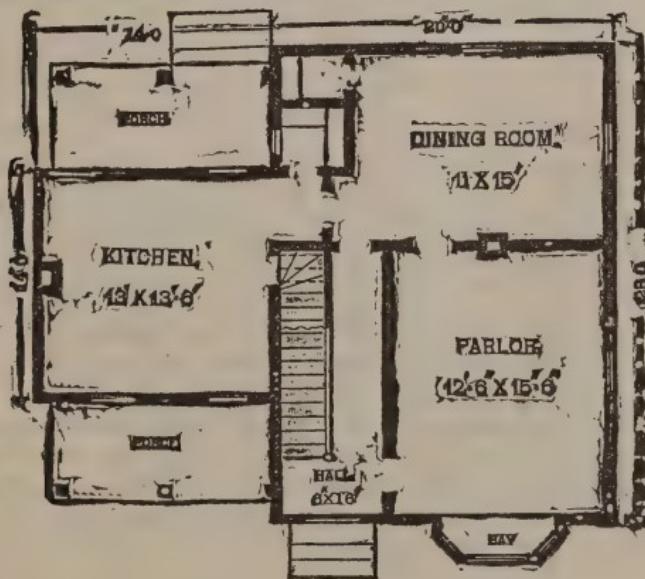
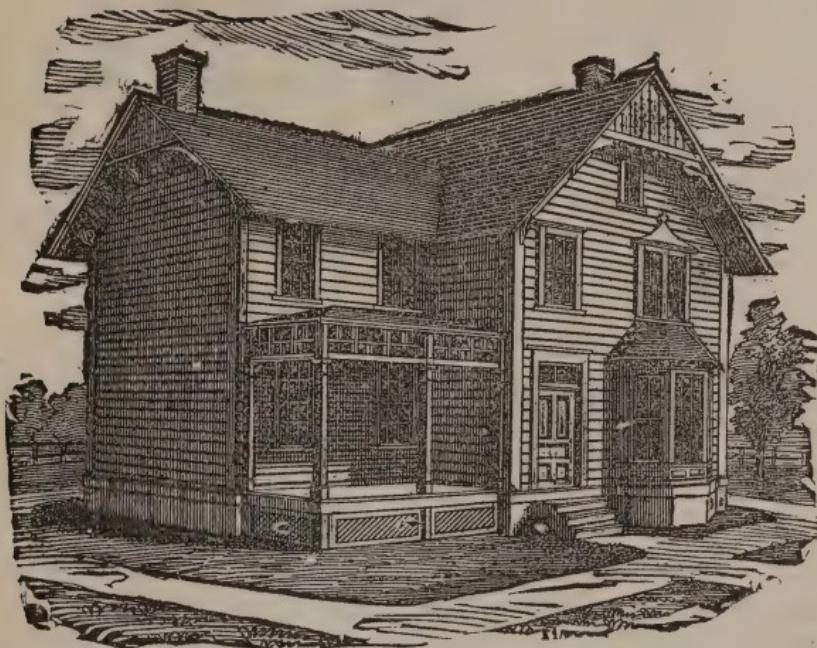
Plan for Design No. 6.

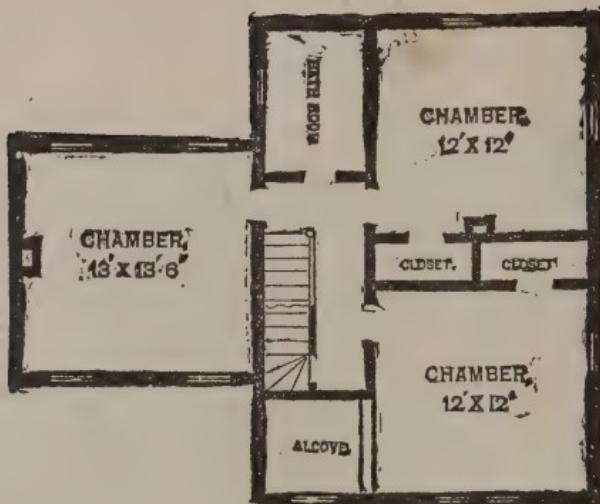
## DESIGN No. 7.



*A very Cheap House for small Farm or Village Tenement.*

## DESIGN No. 8.





*Second Story, Design No. 8.*

To find the number of bricks required in a building: Rule—Multiply the number of cubic feet by 22 $\frac{1}{2}$ . The number of cubic feet is found by multiplying the length, height and thickness (in feet) together. Bricks are usually made 8 inches long, 4 inches wide and 2 inches thick; hence it requires 27 bricks to make a cubic foot without mortar, but it is generally assumed that the mortar fills 1-6 of the space.

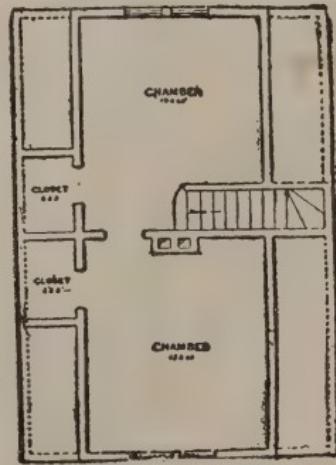
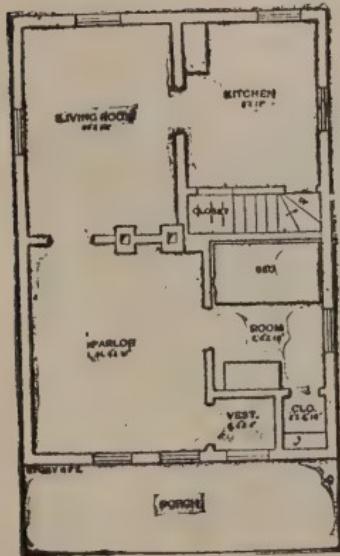
Partitions unsupported from underneath the floors should be supported from the walls by means of a simple truss. This can be made by setting two pieces of scantling into the walls on either side, at the floor, to abut against each other at the ceiling or against a collar-beam over the doors. This plan will obviate the sinking of floors so often seen under partitions.

Q. Putty, for plastering, is a very fine cement made of lime only. It is thus prepared: Dissolve in a small quantity of water, as two or three gallons, an equal quantity of fresh lime, constantly stirring it with a stick until the lime be entirely slaked, and the whole becomes of a suitable consistency, so that when the stick is taken out of it, it will just drop therefrom; this, being sifted or run through a hair sieve, to take out the gross parts of the lime, is fit for use. Putty differs from fine stuff in the manner of preparing it, and its being used without hair.

## DESIGN. No. 9.

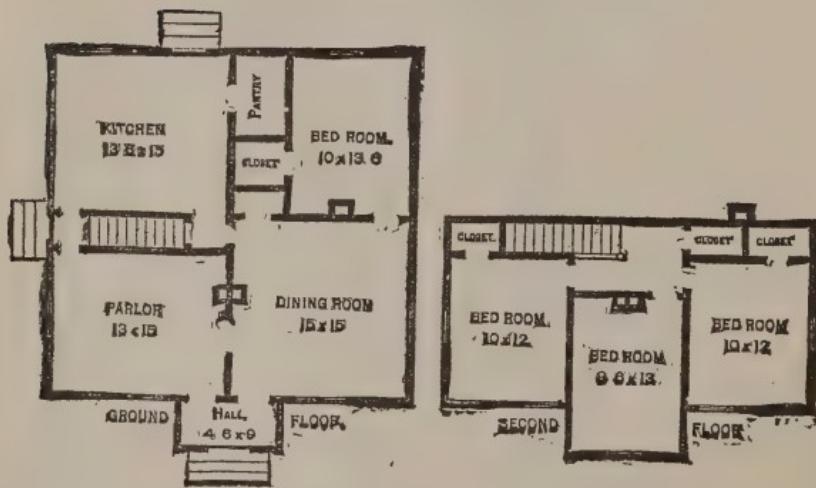


FRONT ELEVATION.



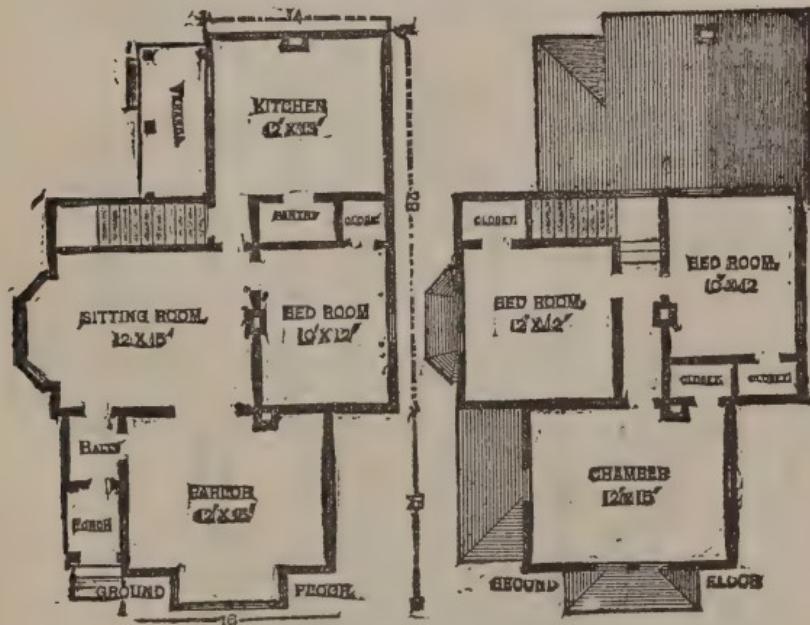
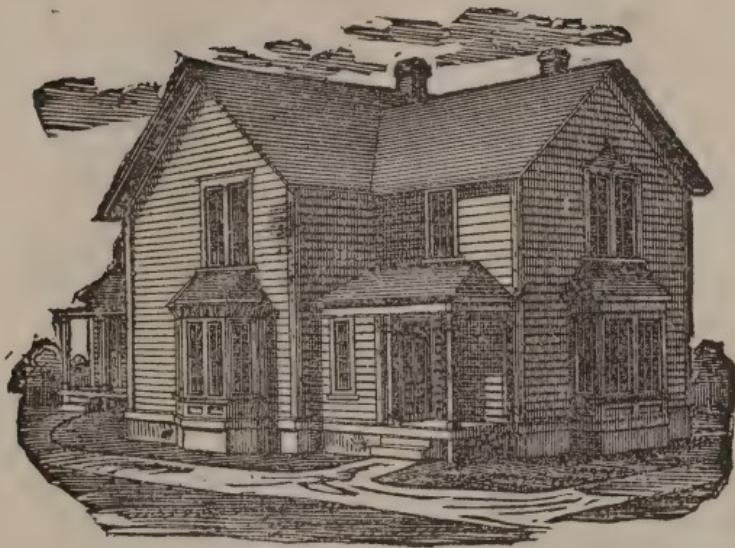
Size—30 ft. deep, 21 ft. wide.  
A MODEL COTTAGE.

## DESIGN No. 10.



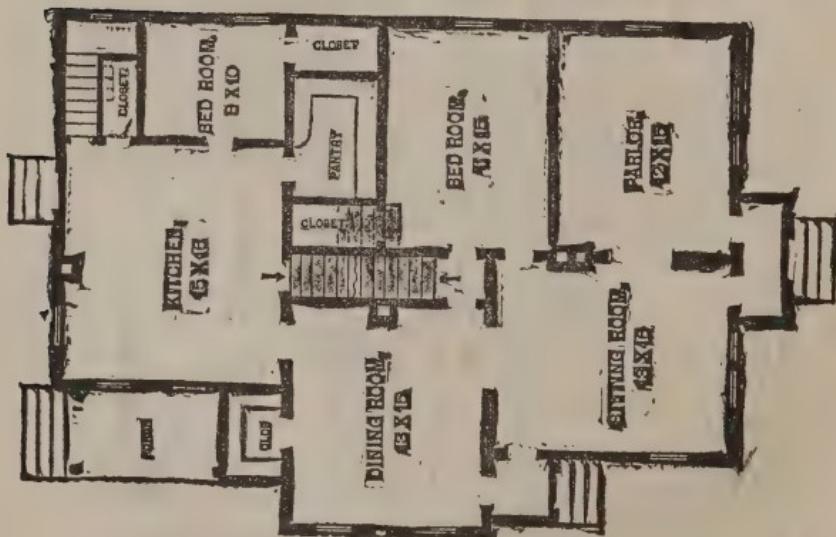
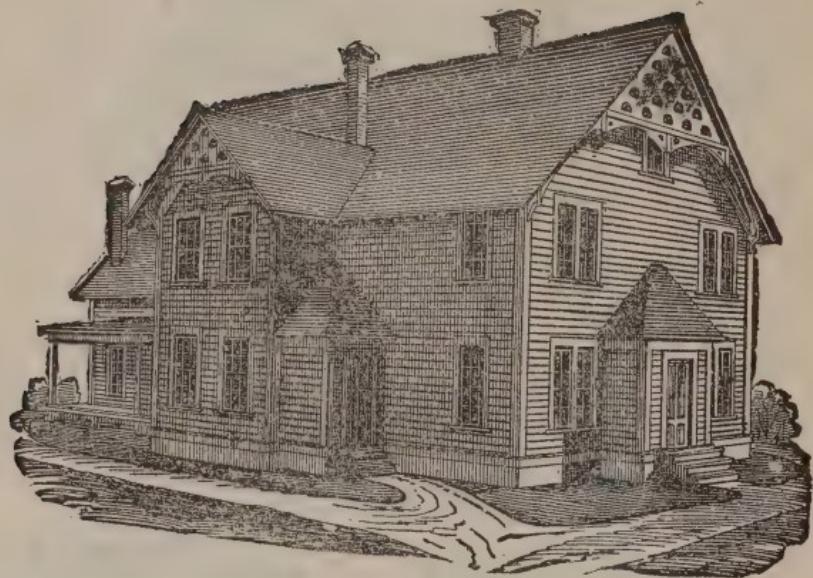
*This can easily be made larger by making it all two stories high, which would give quite a large house.*

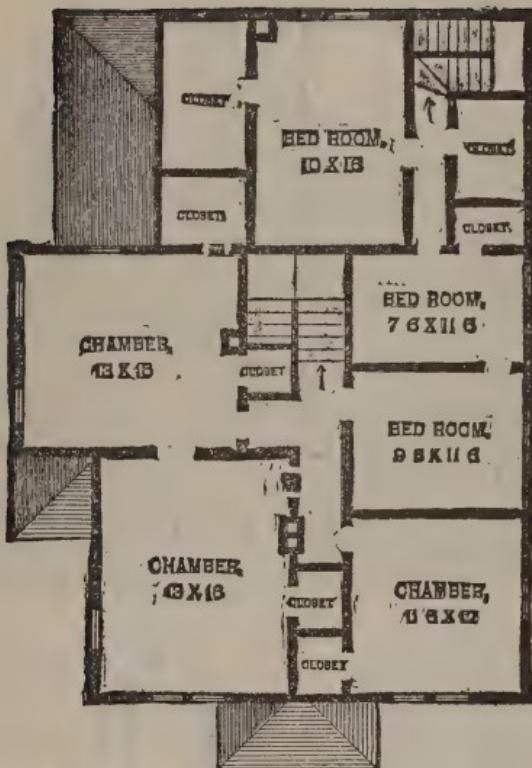
## DESIGN No. 11.



*A very handsome and convenient Seven Room Residence.*

## DESIGN No. 12.





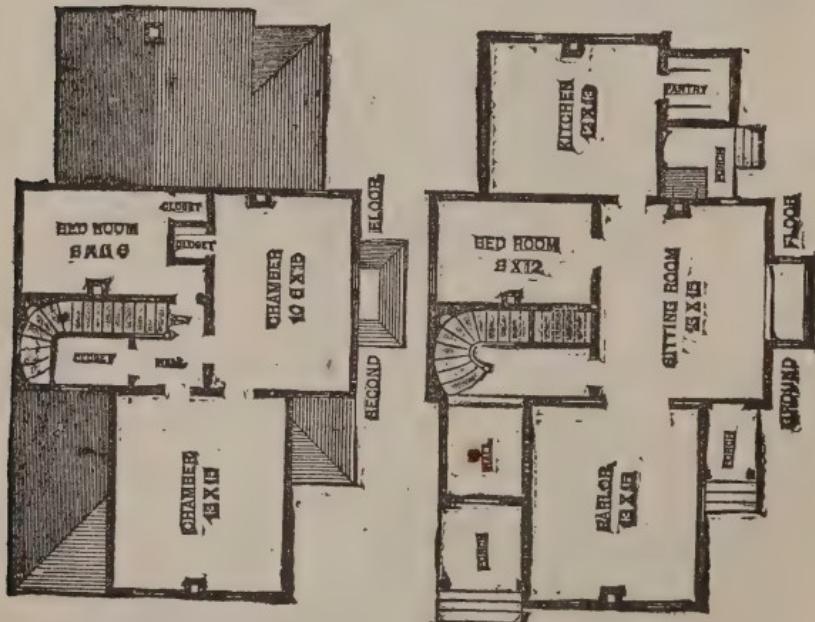
*Design 12 is a very well arranged, large House, capable of accommodating a large family, thoroughly provided with closets, etc.*

#### MEASURES OF CAPACITY.

The following table will often be found convenient, taking inside dimensions:

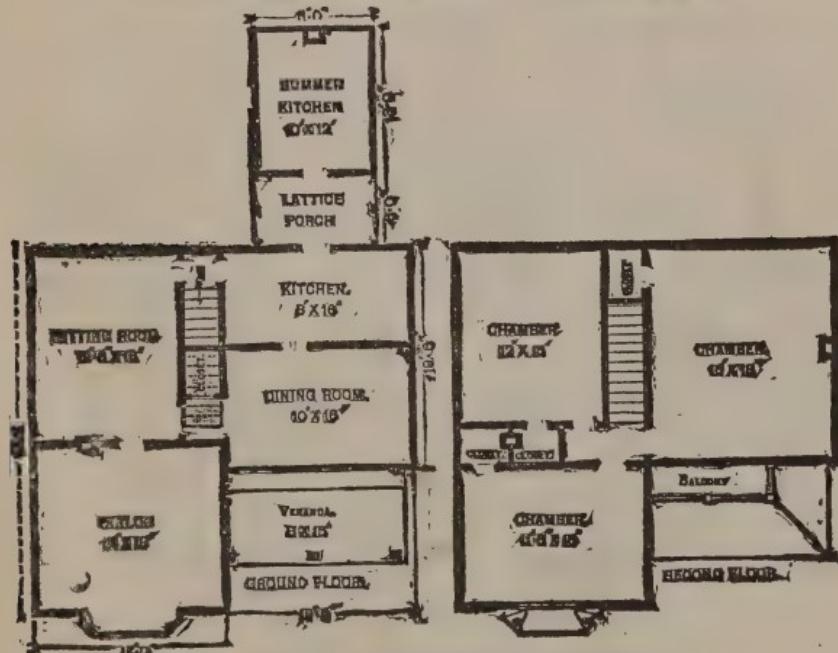
- A box 24 in. x 24 in. x 14.7 will contain a barrel of 31½ gallons.
- A box 15 in. x 14 in. x 11 in. will contain 10 gallons.
- A box 8½ in. x 7 in. x 4 in. will contain a gallon.
- A box 4 in. x 4 in. x 3.6 in. will contain a quart.
- A box 24 in. x 28 in. x 16 in. will contain 5 bushels.
- A box 16 in. x 12 in. x 11.2 in. will contain a bushel.
- A box 12 in. x 11.2 in 8 in. will contain a half bushel.
- A box 7 in. x 6.4 in. x 13 in. will contain a peck.
- A box 8.4 in. x 8 in. x 4 in. will contain a half peck, or 4 dry quarts.
- A box 6 in. x 5 3-5 in., and 4 in. deep, will contain a half gallon.
- A box 4 in. x 4 in., and 2 1-10 deep, will contain a pint.

## DESIGN No. 13.



*Same size as No. 11, differently arranged.*

## DESIGN No. 14.

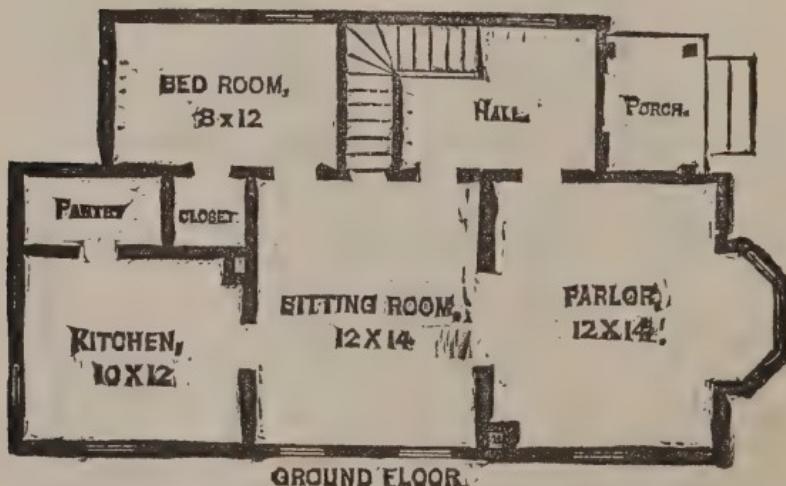


*Convenient Eight Room Dwelling,*

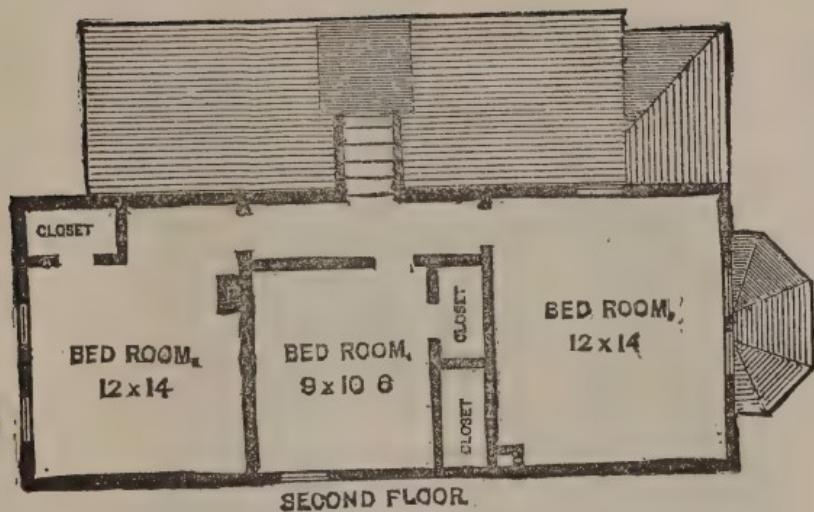
## DESIGN No. 15.



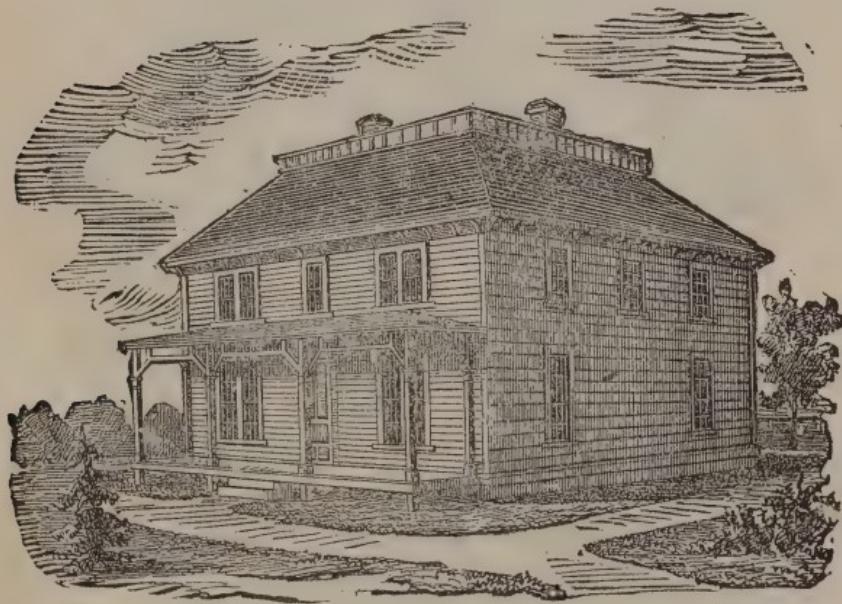
*A Cheap Village or City House where ground is limited.*



(For Plan of Second Story see opposite Page.)

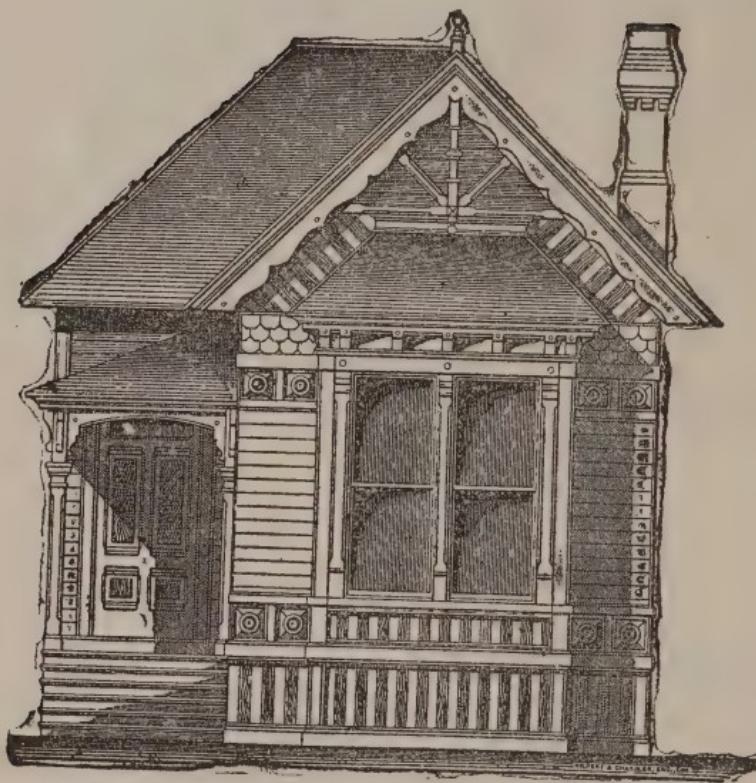


### DESIGN No. 16.

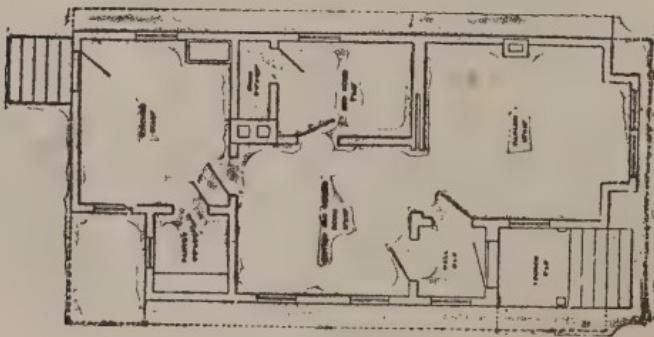


*A good Farm or Village House, with room well utilized.*

## DESIGN No. 17.

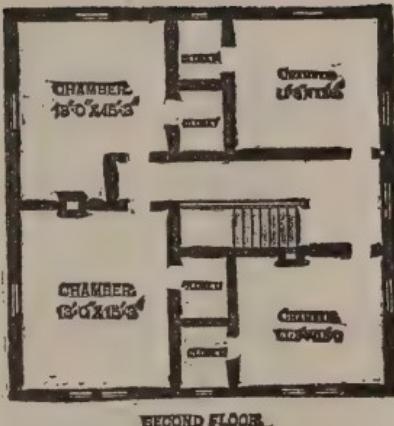
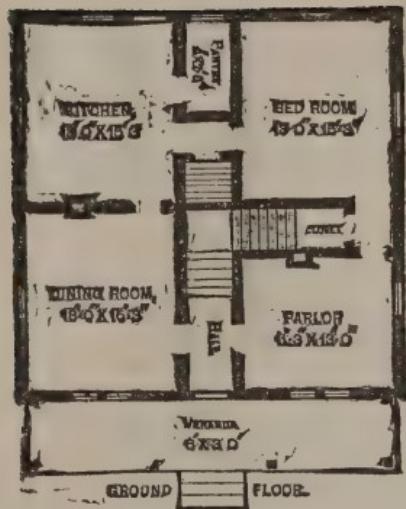


FRONT ELEVATION.



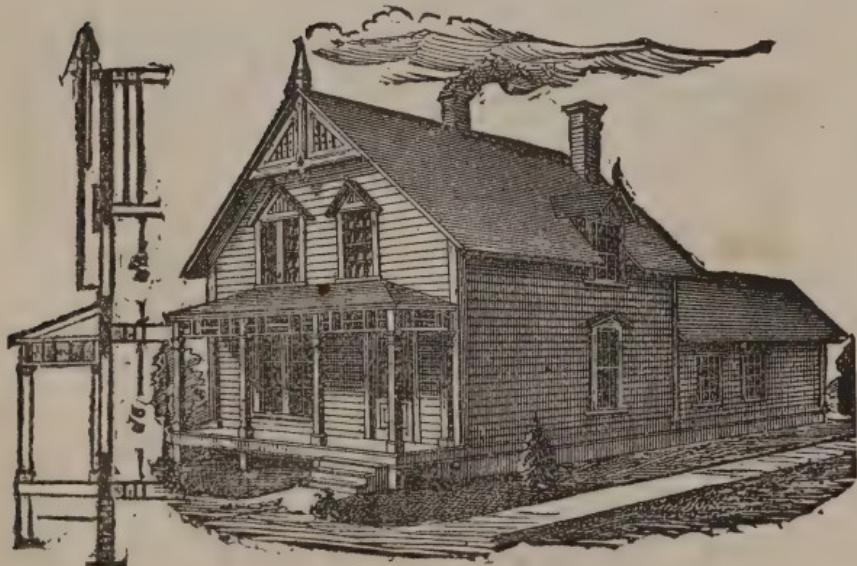
FLOOR PLAN.

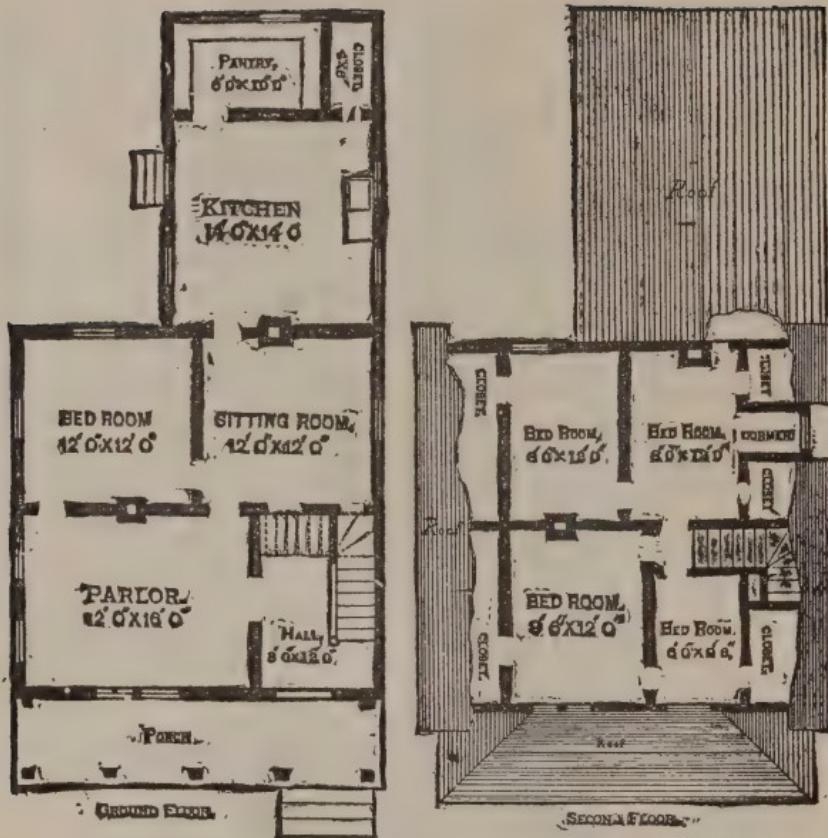
A Beautiful and Convenient Cottage.  
Size — 42 feet deep, 20 feet wide.



*Plans of Design No. 16.*

## DESIGN No. 18





*Plans for Design No. 18.*

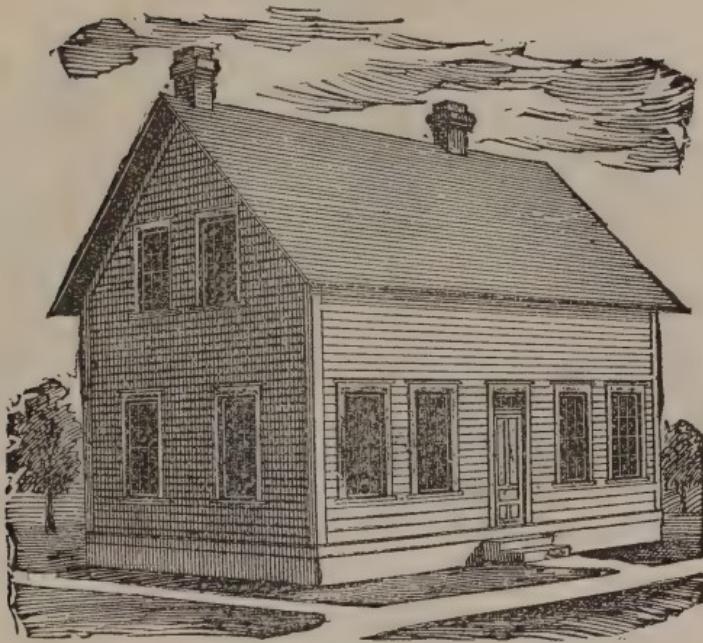
**DIMENSIONS OF ONE ACRE.**

A square, whose sides are 12,649 rods, or 69.57 rods, or 208.71 feet long, contains one acre. Table of dimensions of rectangle containing one acre:

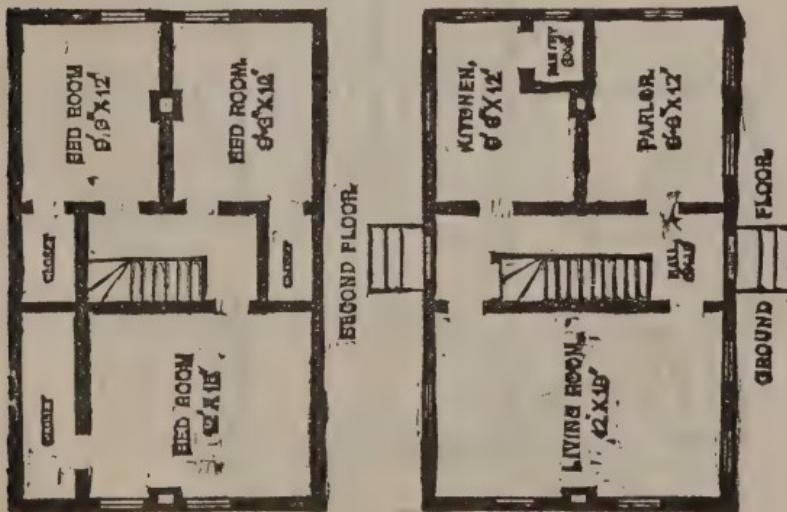
**RODS.**

1	X	160	1½ X 106½	2	X	80	2½ X 64
3	X	53½	3½ X 45 5-7	4	X	40	4½ X 35 5-9
5	X	32	5½ X 29 1-11	6	X	26½	6½ X 24 8-13
7	X	22 6-7	7½ X 21½	8	X	20	8½ X 18 14-17
9	X	17 7-9	9½ X 16 16-19	10	X	16	10½ X 15 5-21
11	X	14 6-11	11½ X 13 21-33	12	X	13½	12½ X 12 4-5
							12 13-20 X 12 13-20

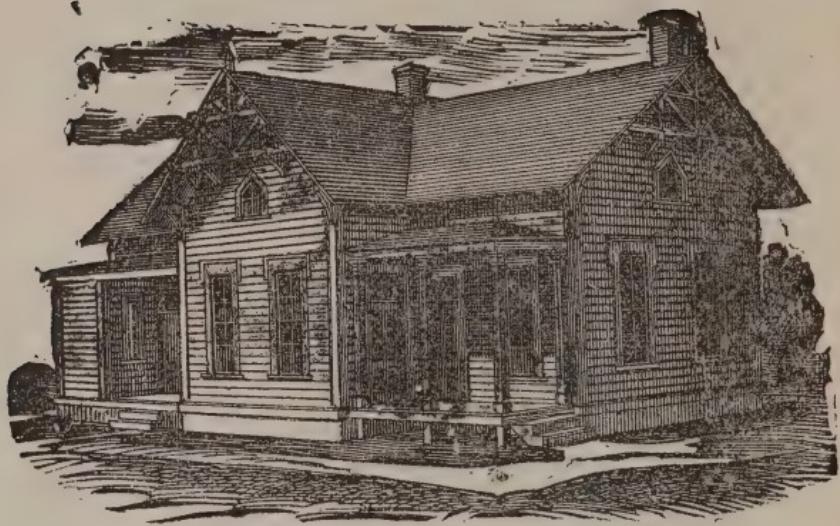
## DESIGN No. 19.



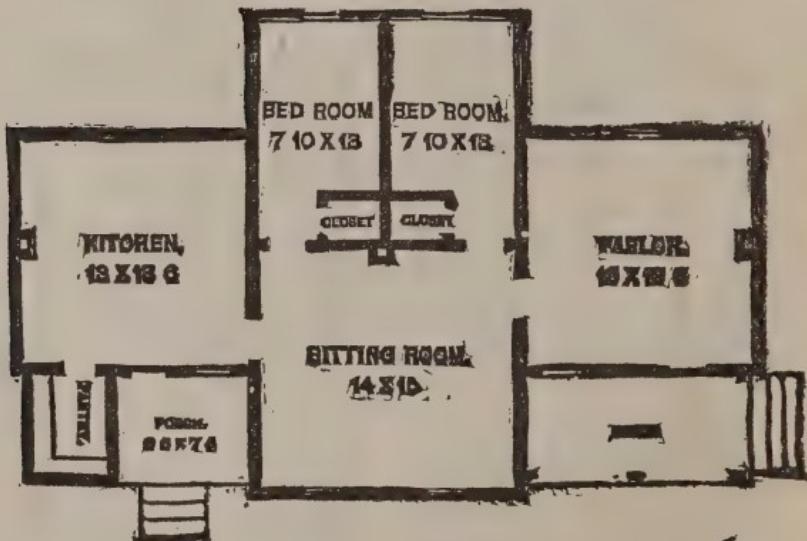
*A very Cheap and convenient House.*



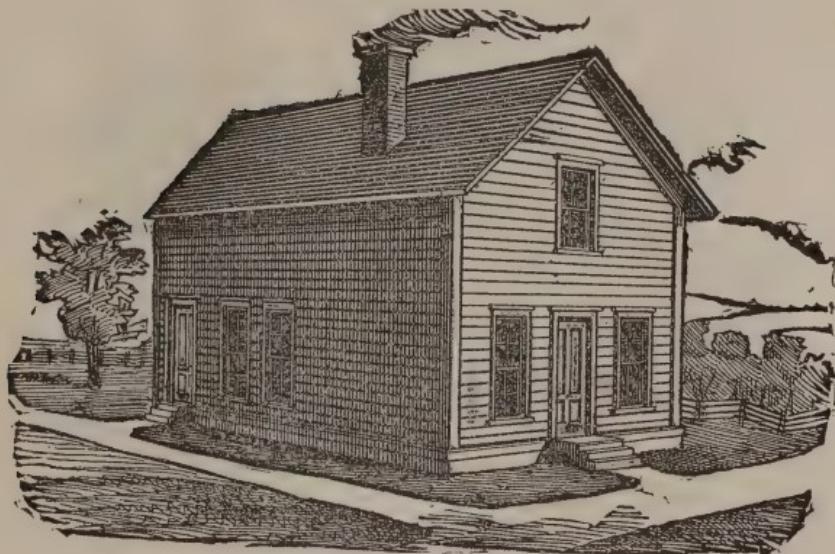
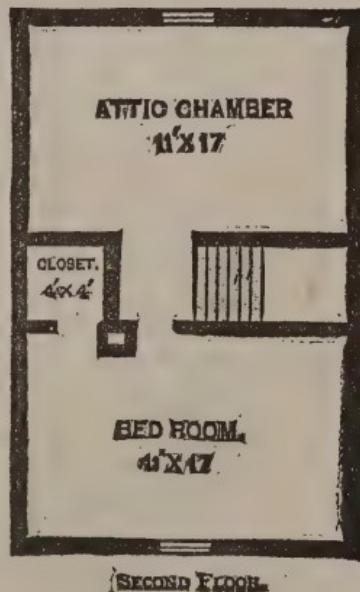
## DESIGN No. 20.



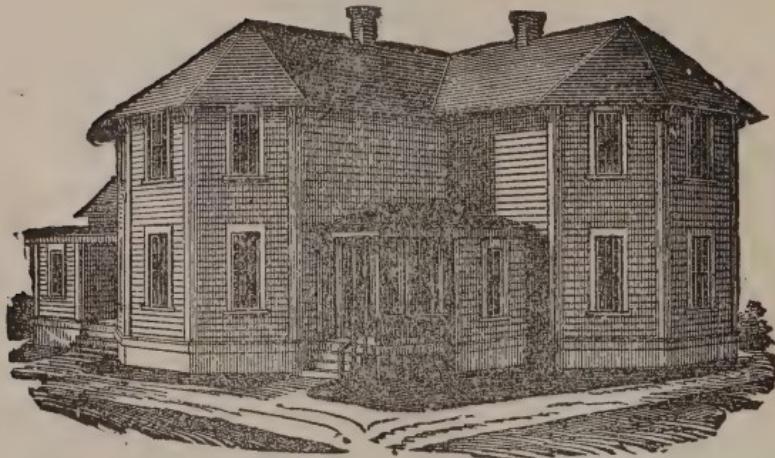
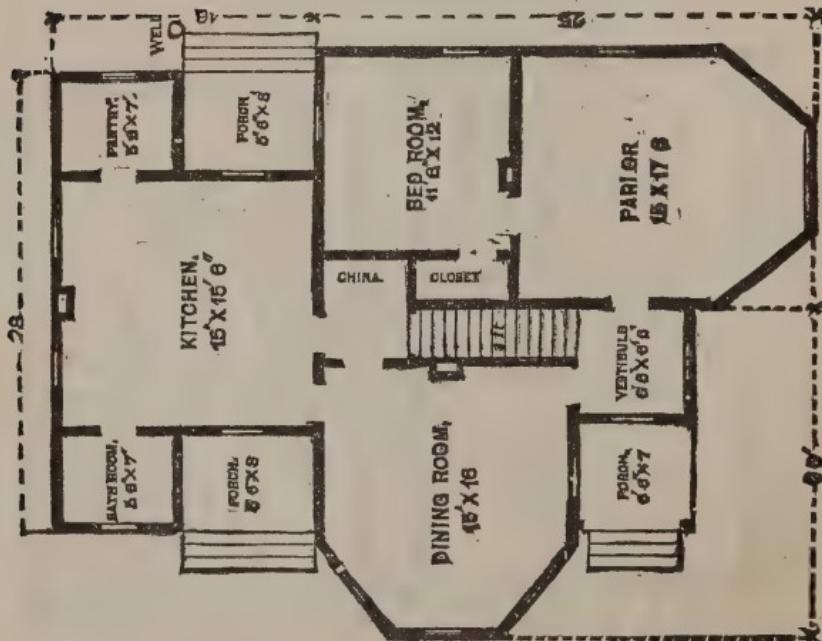
*A Model One Story House.*

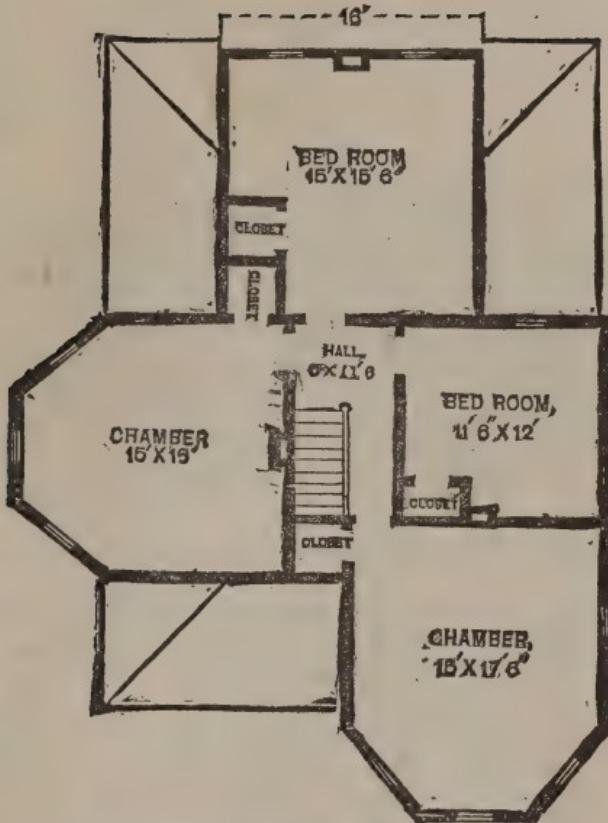


## DESIGN No. 21.

*A very Cheap Tenement.*

## DESIGN No. 22.

*A beautiful Village Residence.*



*Second Story Plan Design No. 22.*

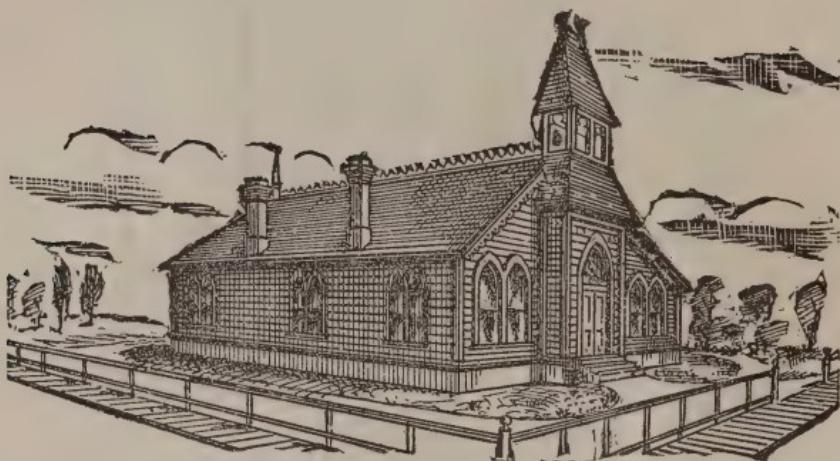
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**NUMBER OF TREES REQUIRED PER ACRE.**

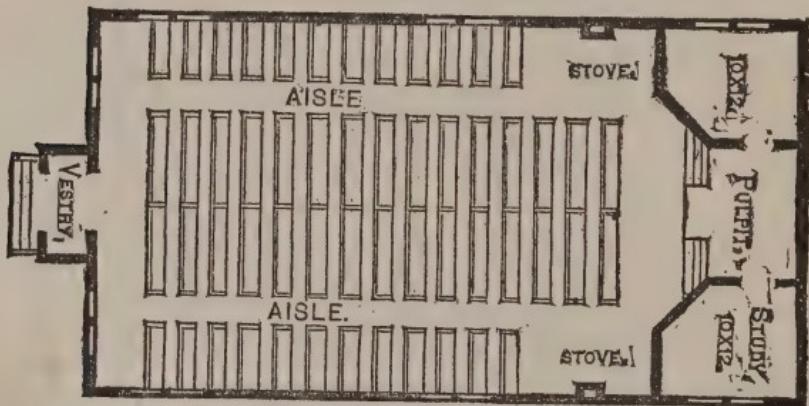
4 feet apart each way.....	2,720	15 feet apart each way.....	200
5     "     "     ".....	1,742	18     "     "     ".....	135
6     "     "     ".....	1,200	20     "     "     ".....	110
8     "     "     ".....	680	25     "     "     ".....	70
10    "     "     ".....	430	30     "     "     ".....	50
12    "     "     ".....	325	33     "     "     ".....	40

**HAY MEASURE.**—About 500 cubic feet of well-settled hay, or about 700 of new mown hay, will make a ton. To estimate amount of hay in mow—Ten cubic yards of meadow hay weigh a ton. When the hay is taken out of old stacks, 8 or 9 yards will make a ton. Eleven or 12 cubic yards of clover, when dry, make a ton. (*Note.*—The only accurate method to measure hay is to weigh it, since two quantities equal in bulk will never weigh alike. Any rule is simply an approximation.)

## DESIGN No. 23.

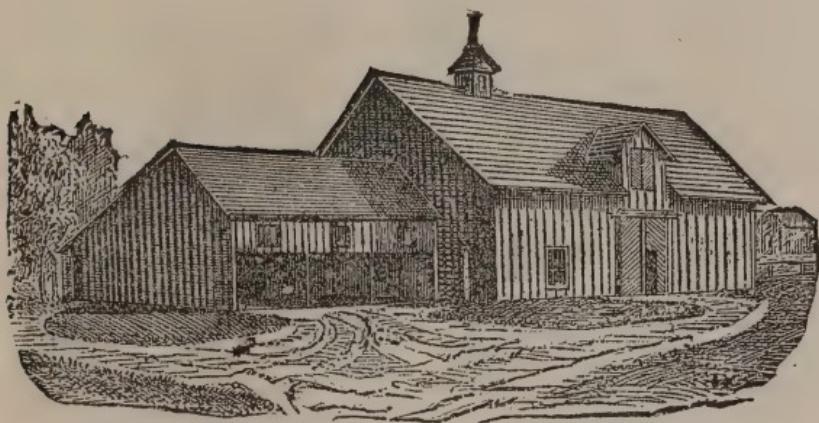


*An attractive and Cheap Village or Country Church.*

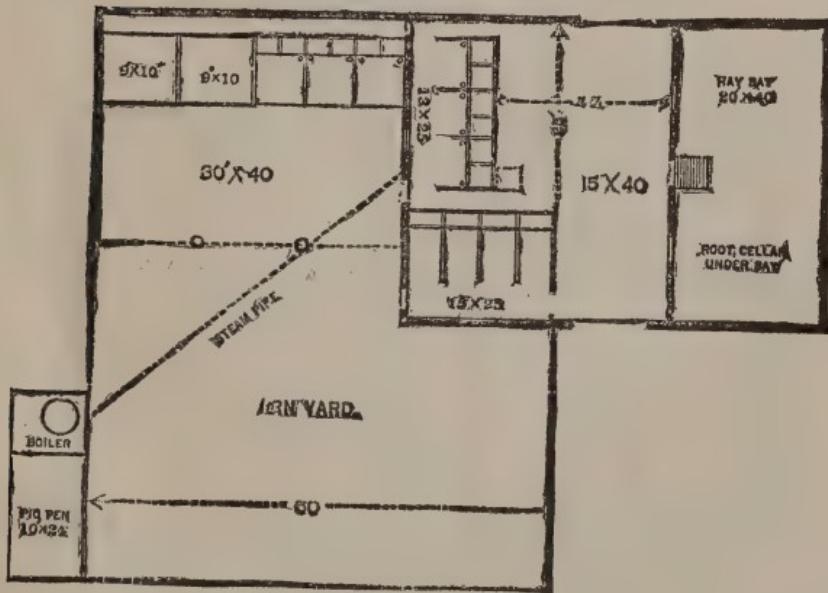


Building contracts, as all other business arrangements, should be written. A few moments' time spent in stating, clearly and concisely, what is expected of each party will often save delays and annoyances during the progress of the work and endless litigation after it. The mechanic's lien laws are a sufficient protection to the contractor or material-man, but their enforcement is much more simple and prompt if action can be based on a written contract.

## DESIGN No. 24.

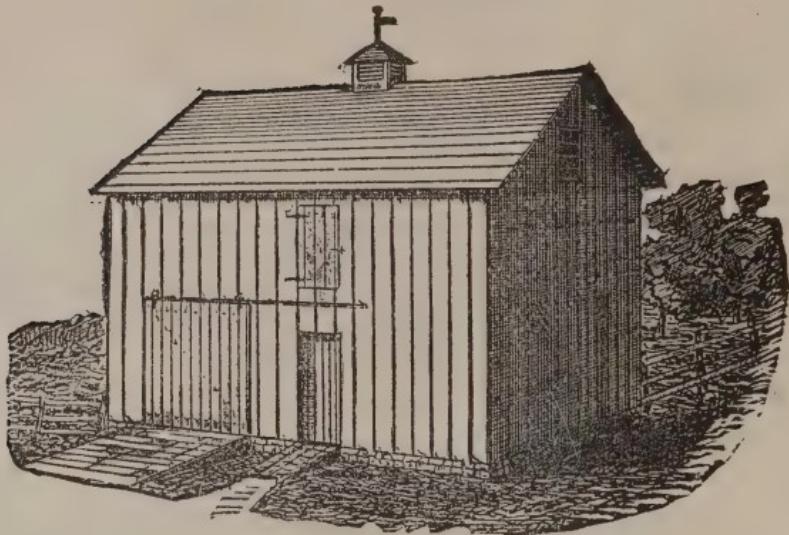
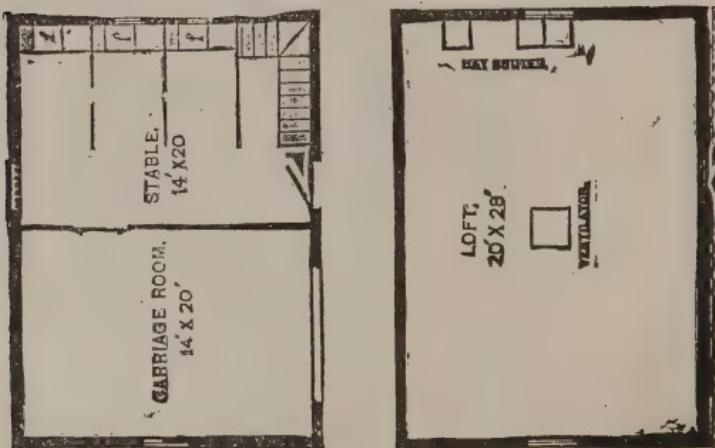


*A very commodious Barn.*



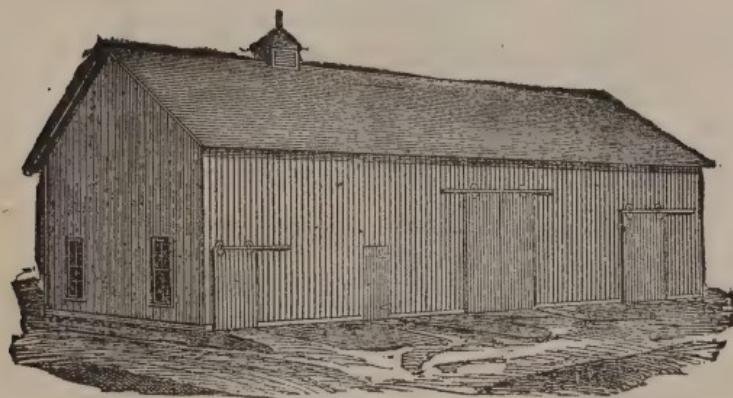
**FLOOR, WALL AND ROOF MEASURE.**—To find the number of square yards in a floor or wall: Rule—Multiply the length by the width or height (in feet), and divide the product by 9; the result will be square yards.

## DESIGN No. 25.

*Cheap Horse Barn.*

To find the contents of a corn crib: RULE—Multiply the number of cubic feet by  $4\frac{1}{2}$  and point off one decimal place—the result will be the answer in bushels. How many bushels will a crib hold that is 48 feet long,  $7\frac{1}{2}$  feet wide and  $8\frac{1}{2}$  feet high?— $48 \times 7\frac{1}{2} \times 8\frac{1}{2} = 3,060$  cubic feet;  $3,060 \times 4\frac{1}{2} = 12,240$ ;  $12,240 + 1530 = 1377$ . bushels, answer.

## DESIGN No. 26.

*A Finely Arranged Combination Barn.*

(For Plan see opposite Page.)

## ESTIMATES OF MATERIALS.

**3½ barrels** of lime will do 100 square yards plastering, two coats.

2	"	"	100	"	"	one coat.
---	---	---	-----	---	---	-----------

1½ bushels	of hair	"	100	"	"	"
------------	---------	---	-----	---	---	---

1¼ yards	good sand	"	100	"	"	"
----------	-----------	---	-----	---	---	---

**½ barrel** of plaster (stucco), will hard-finish 100 square yards plastering.

**1 barrel** of lime will lay 1,000 brick. (It takes good lime to do it.)

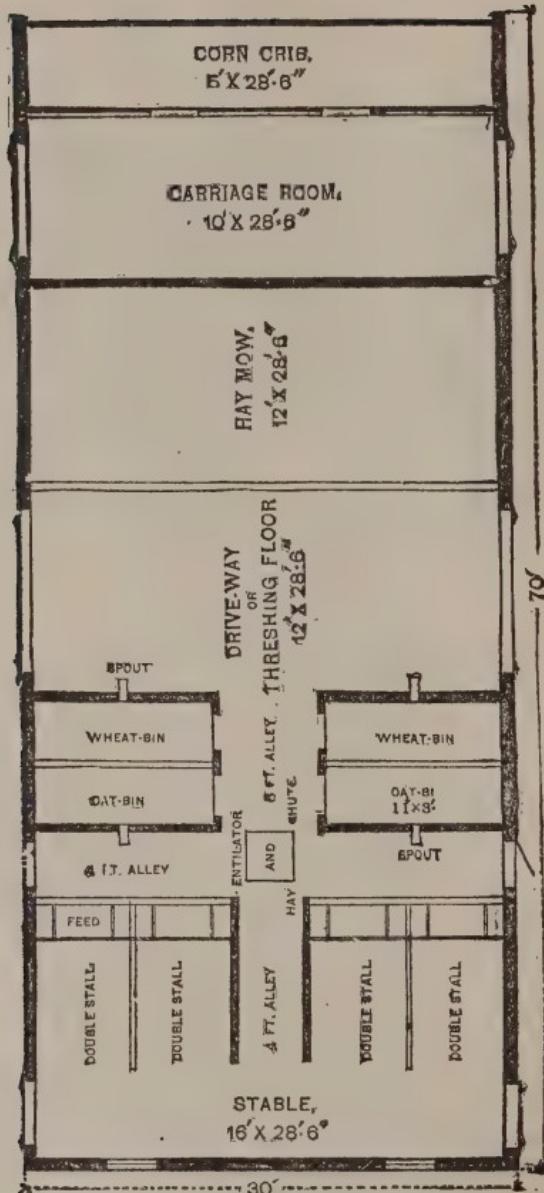
2	"	"	1 cord	rubble stone.
---	---	---	--------	---------------

¾	"	"	1 perch	"	(estimating $\frac{1}{4}$ c'd to perch.)
---	---	---	---------	---	--

To every barrel of lime estimate about  $\frac{5}{8}$  yards of good sand for plastering and brick work.

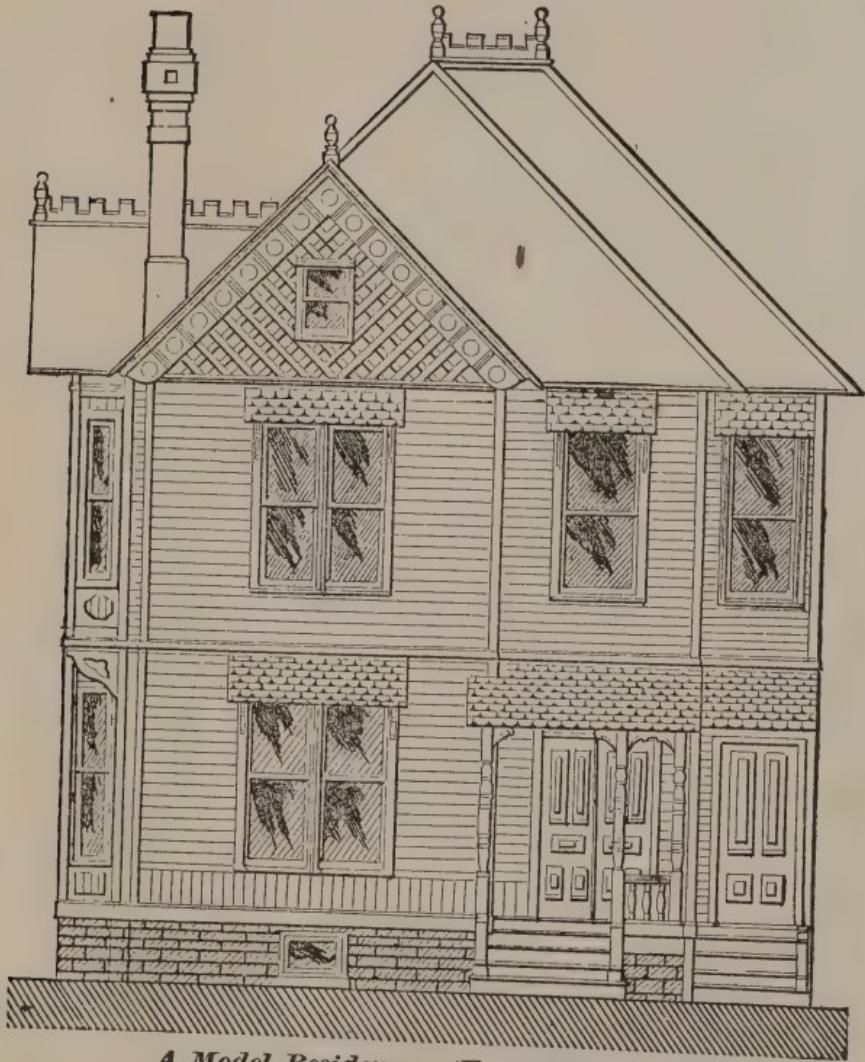
## AMOUNT OF PAINT REQUIRED FOR A GIVEN SURFACE.

It is impossible to give a rule that will apply in all cases, as the amount varies with the kind and thickness of the paint, the kind of wood or other material to which it is applied, the age of the surface, etc. The following is an approximate rule: Divide the number of square feet of surface by 200. The result will be the number of gallons of liquid paint required to give two coats; or, divide by 18 and the result will be the number of pounds of pure ground white lead required to give three coats.



Plan of Barn—Design No. 26.

## DESIGN No. 27.

*A Model Residence. (Front Elevation.)*

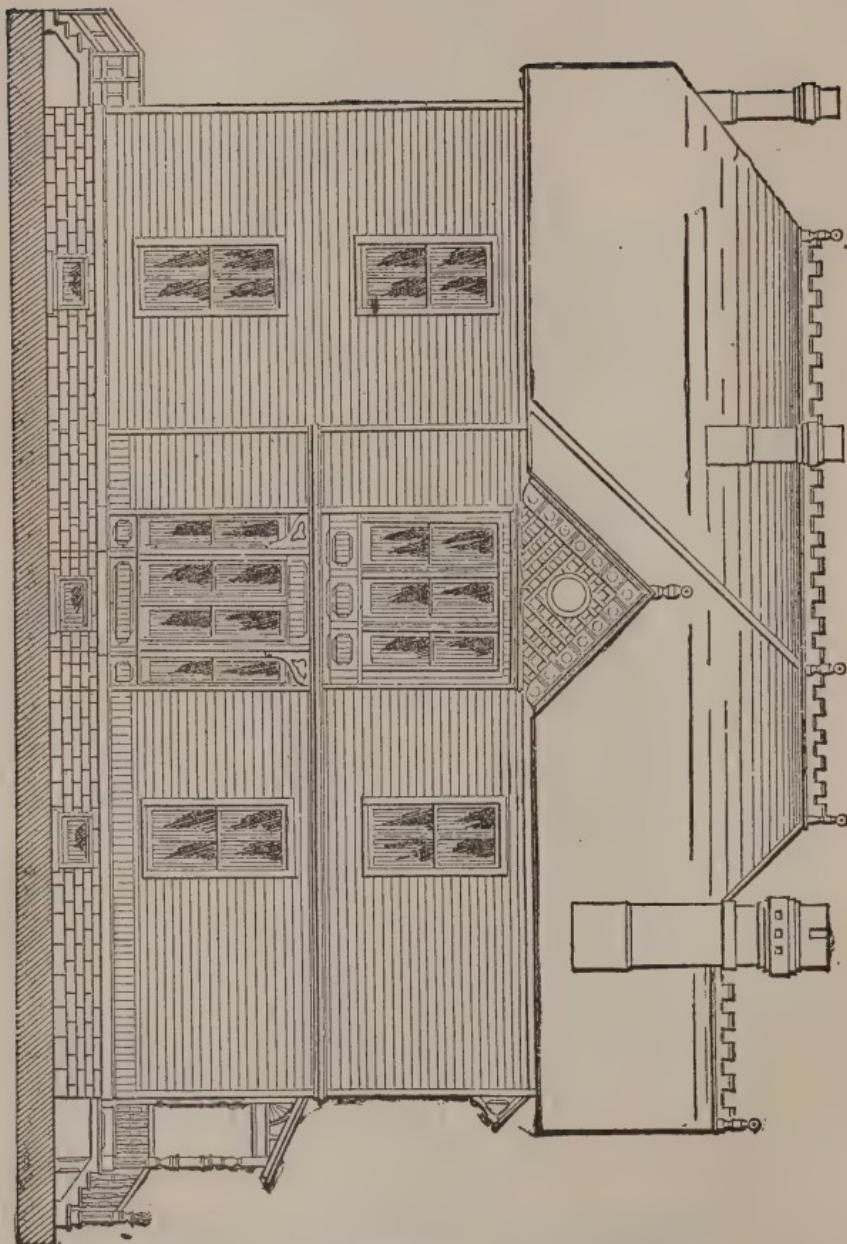
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WOOD MEASURE.

To find the contents of Cord Wood; multiply the length, width and height together and divide the product by 128.

How many Cords in a pile of Wood 4 ft. wide, 5 ft. high and 24 ft. long?

$$4 \times 5 \times 24 = 480 \text{ (cu. ft.)} \div 128 = 3\frac{3}{4} \text{ cords.}$$



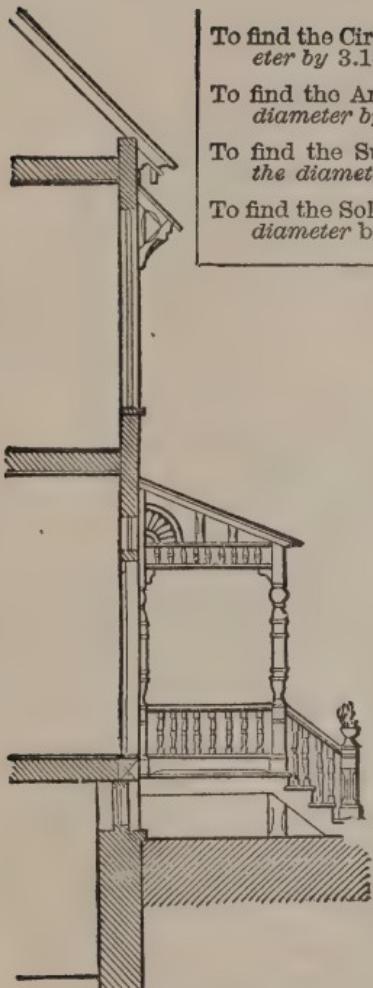
No. 27.—*Model Residence. (Side Elevation.)*

To find the Circumference of a Circle; multiply the diameter by 3.1416.

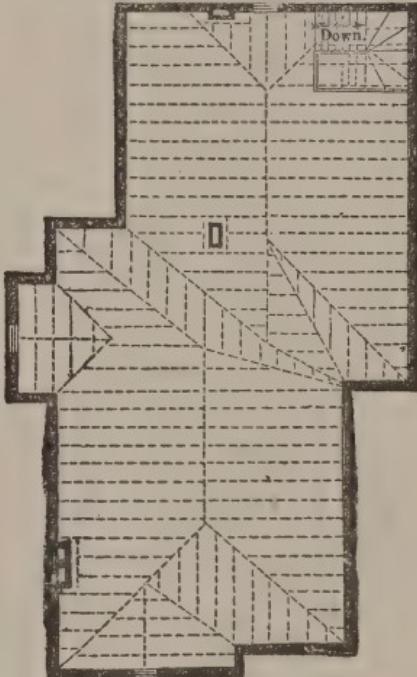
To find the Area of a Circle; multiply the square of the diameter by .7854.

To find the Surface of a Globe; multiply the square of the diameter by 3.1416.

To find the Solidity of a Globe; multiply the cube of the diameter by .5236.



SECTION.



ROOF AND ATTIC PLAN.

### No. 27.—Model Residence.

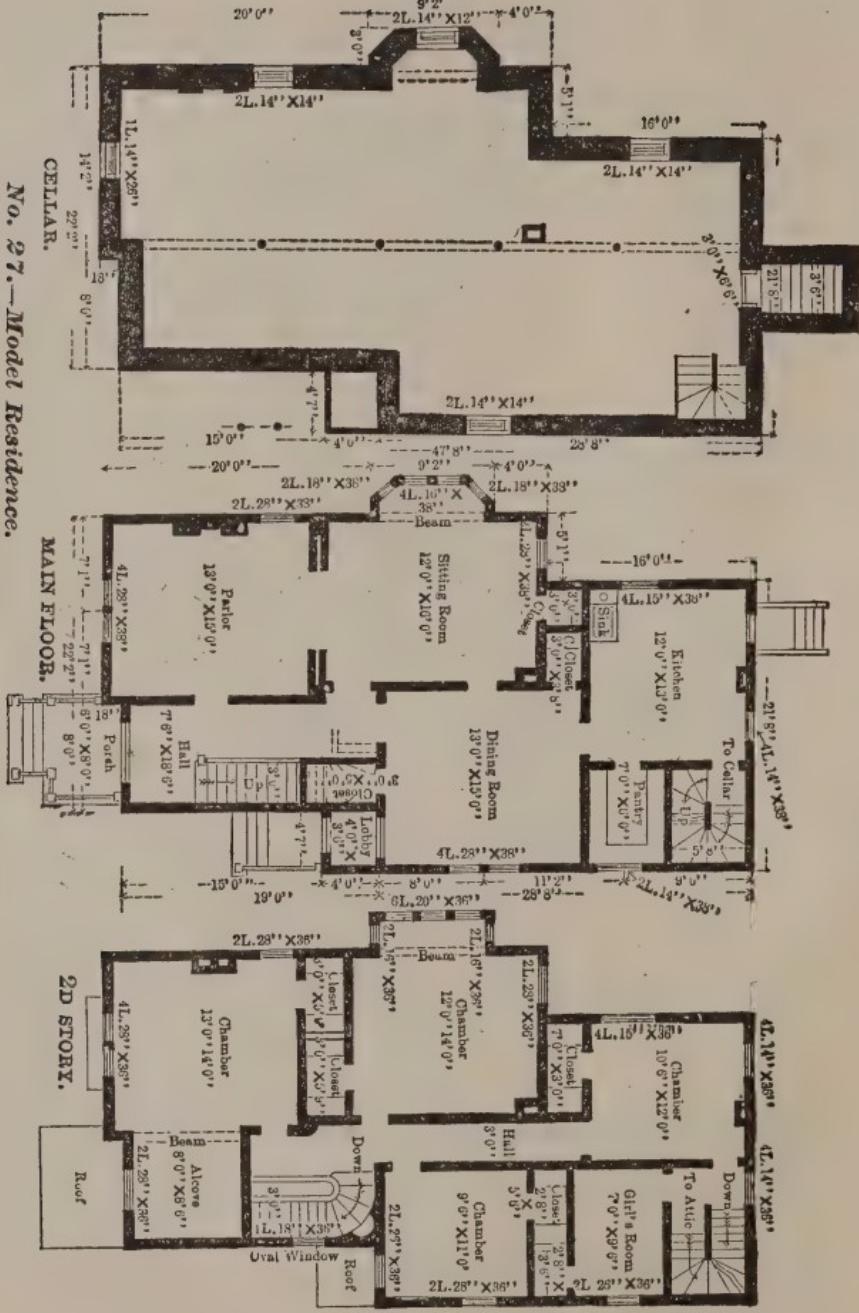
#### BRICK

are usually made 8 inches long, 4 inches wide, and 2 inches thick.

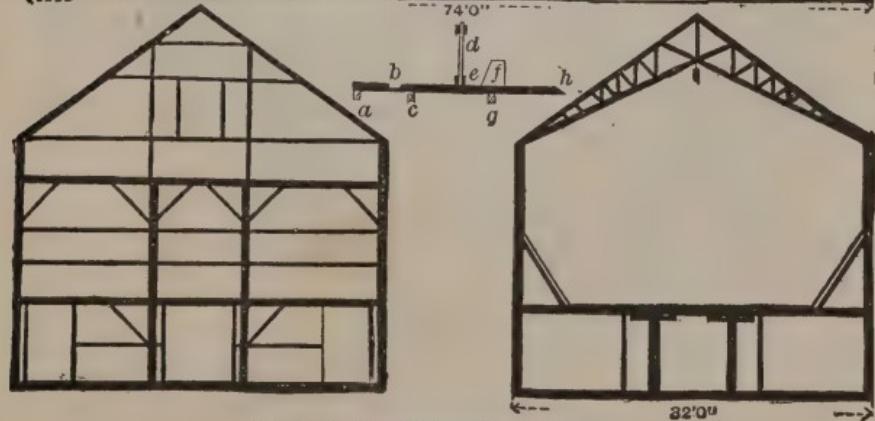
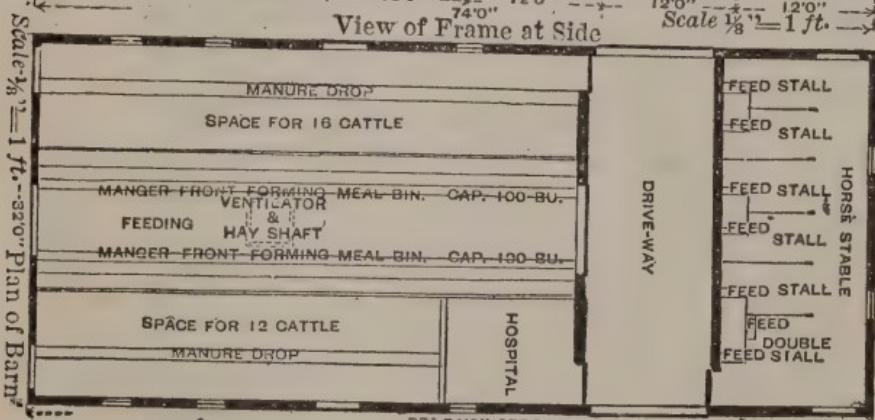
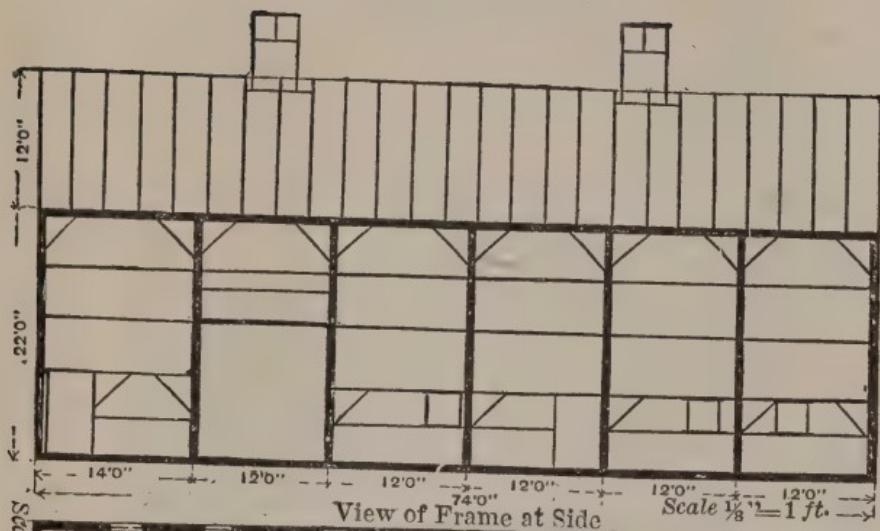
To the cubic foot, it takes 15 for an *eight* inch,  $22\frac{1}{2}$  for a *twelve* inch, and 30 for a *sixteen* inch Wall. The mortar filling up about *one-sixth* of the space. Laid flat ways, it takes  $4\frac{1}{2}$  to the sq. ft.

How many Brick will it take to build a house, whose walls are 156 ft. long, 20 ft. high and 16 inches ( $1\frac{1}{3}$  ft.) thick; deducting 640 cu. ft. for doors and windows?

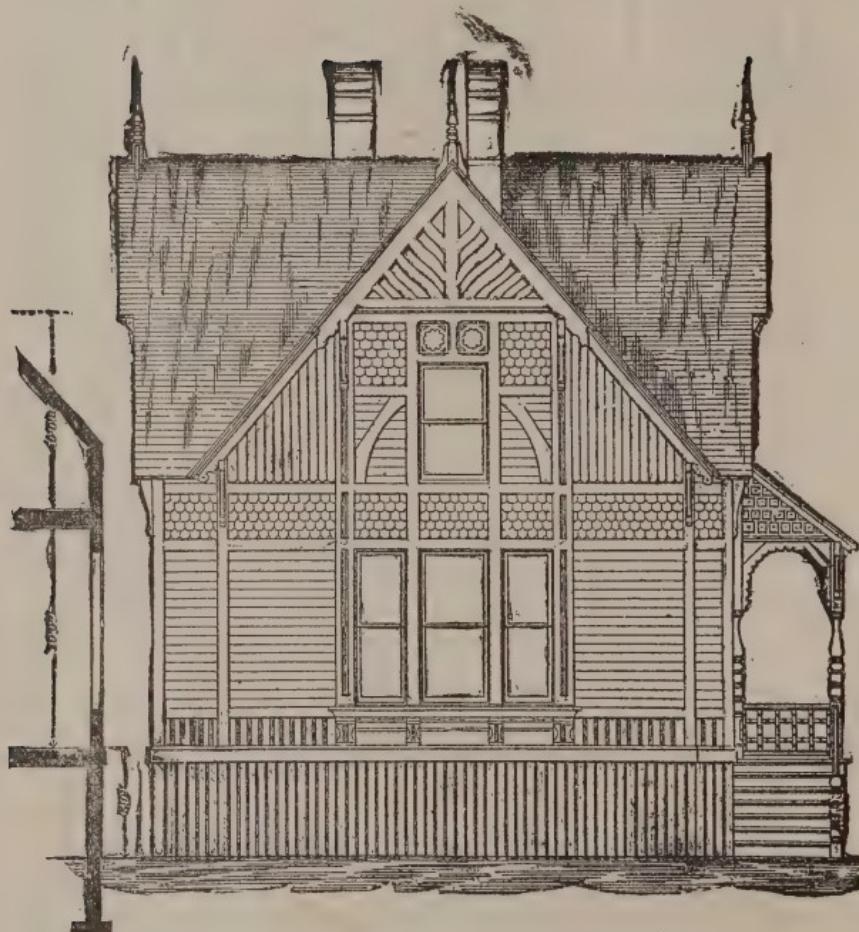
$$\begin{aligned}
 & 156 \times 20 \times 1\frac{1}{3} = 4160 \text{ cu. ft.} \\
 & \text{Less } 640 = 3520 \quad " \\
 & \qquad \qquad \qquad 22\frac{1}{2} \\
 & \text{Ans. } 79200 \text{ brick.}
 \end{aligned}$$



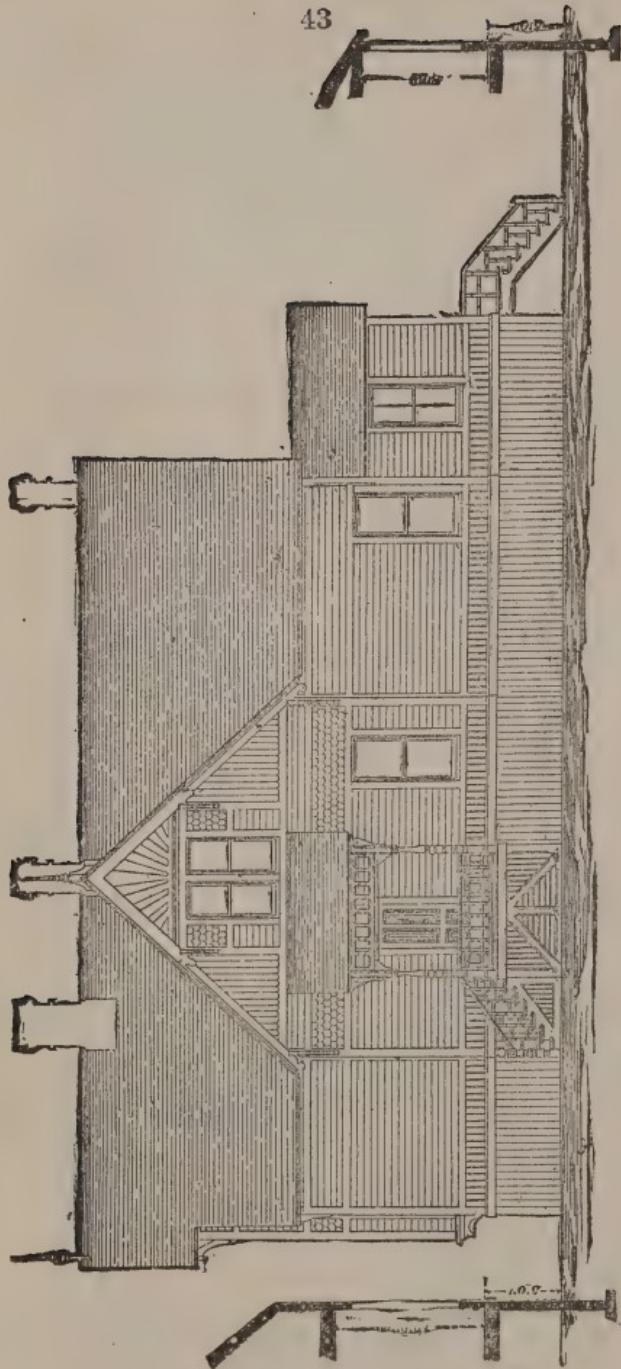
## DESIGN No. 28.

*Model Combination Barn.*

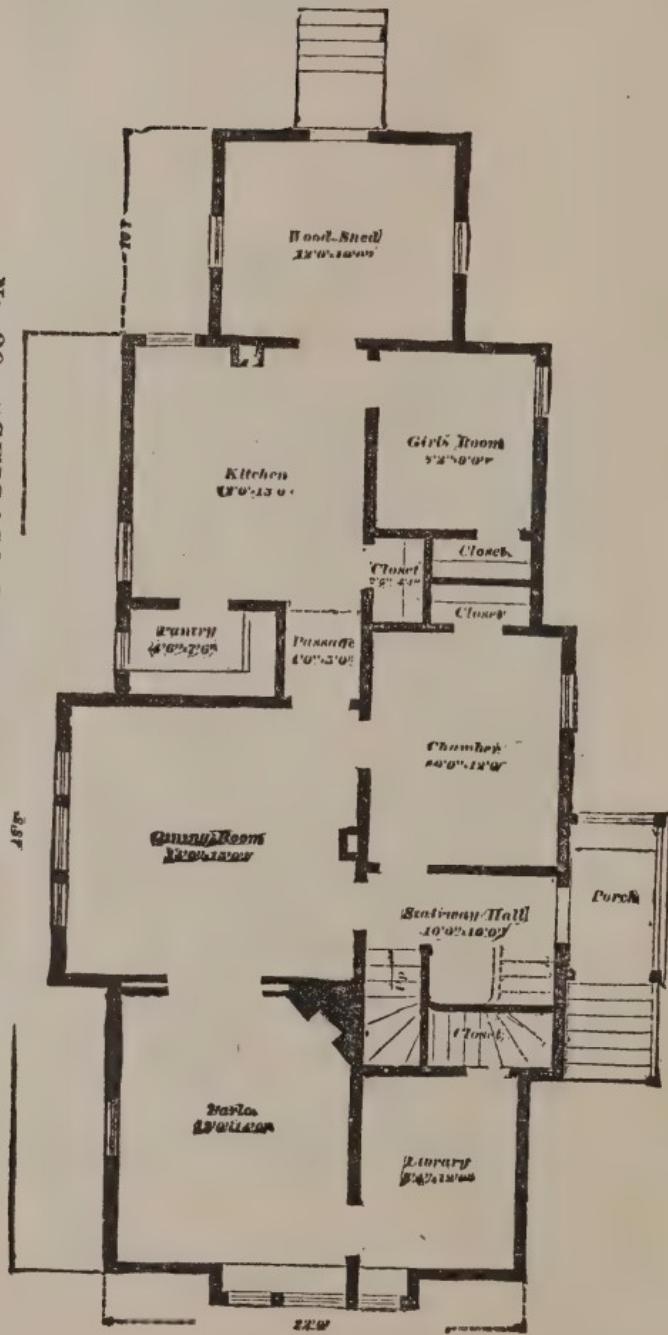
## DESIGN No. 29.



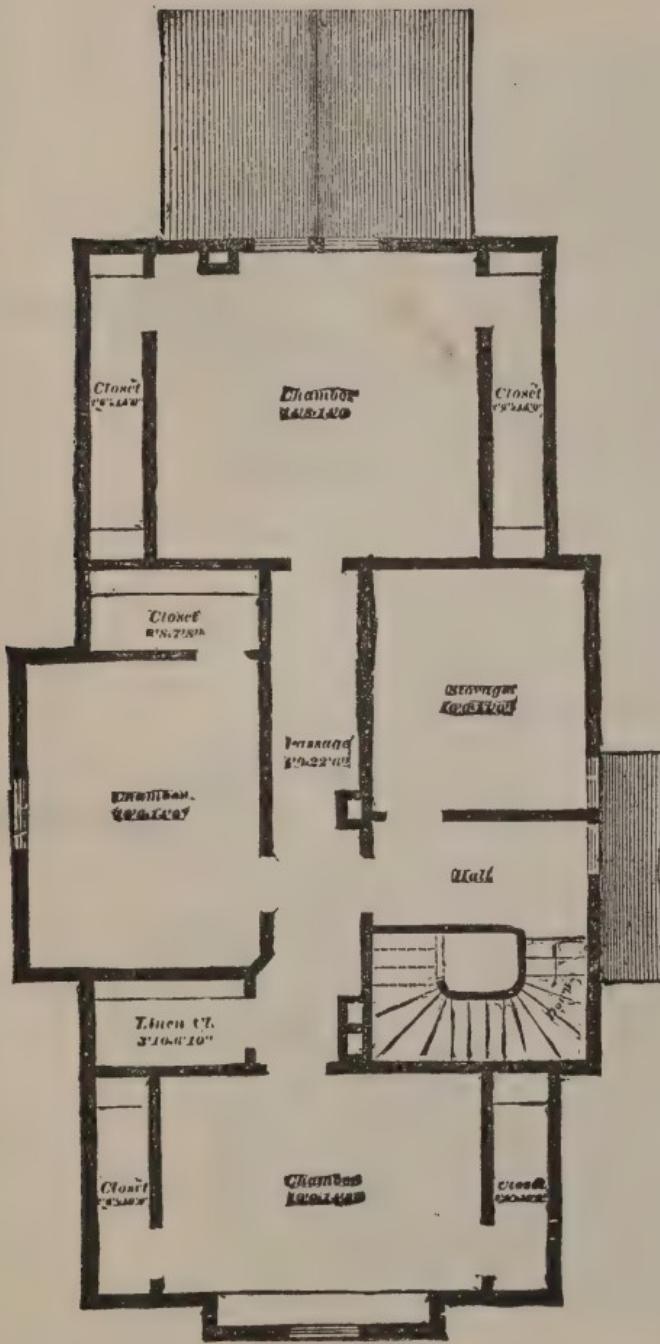
**“CHICAGO COTTAGE”—Front Elevation.**



No. 29.—“CHICAGO COTTAGE”—Side Elevation.



No. 29.—“CHICAGO COTTAGE”—*Ground Floor Plan.*



No. 29.—"OHIOAGO" COTTAGE—Second Floor Plan.

## DESIGN No. 30.



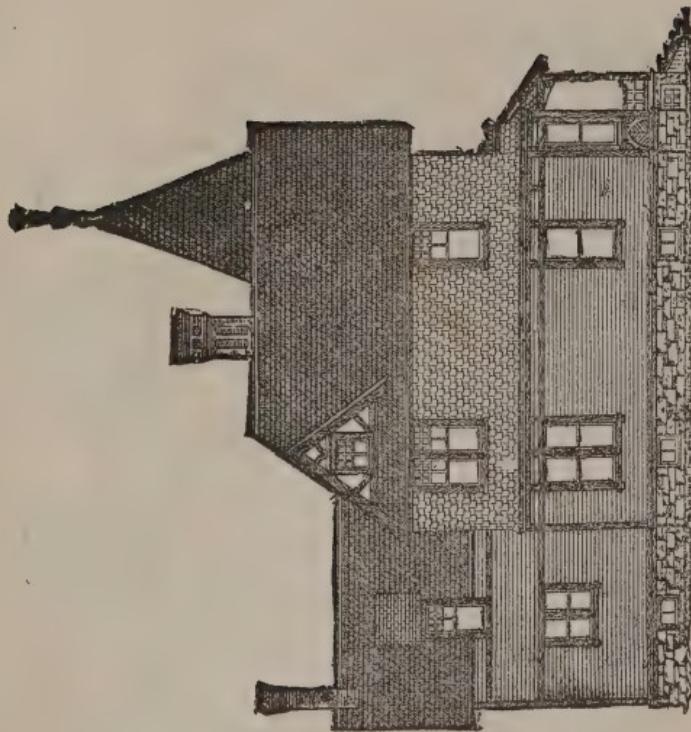
FRONT ELEVATION.

No. 30.—*Elevations of Modern Eight Room Cottage.*

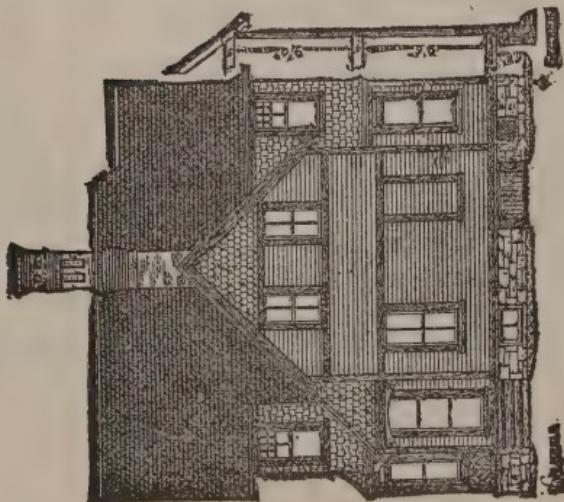
Plans of this Cottage furnished by Palliser, Palliser & Co., Architects, Bridgeport, Conn.

SIDE ELEVATION.





SIDE ELEVATION.

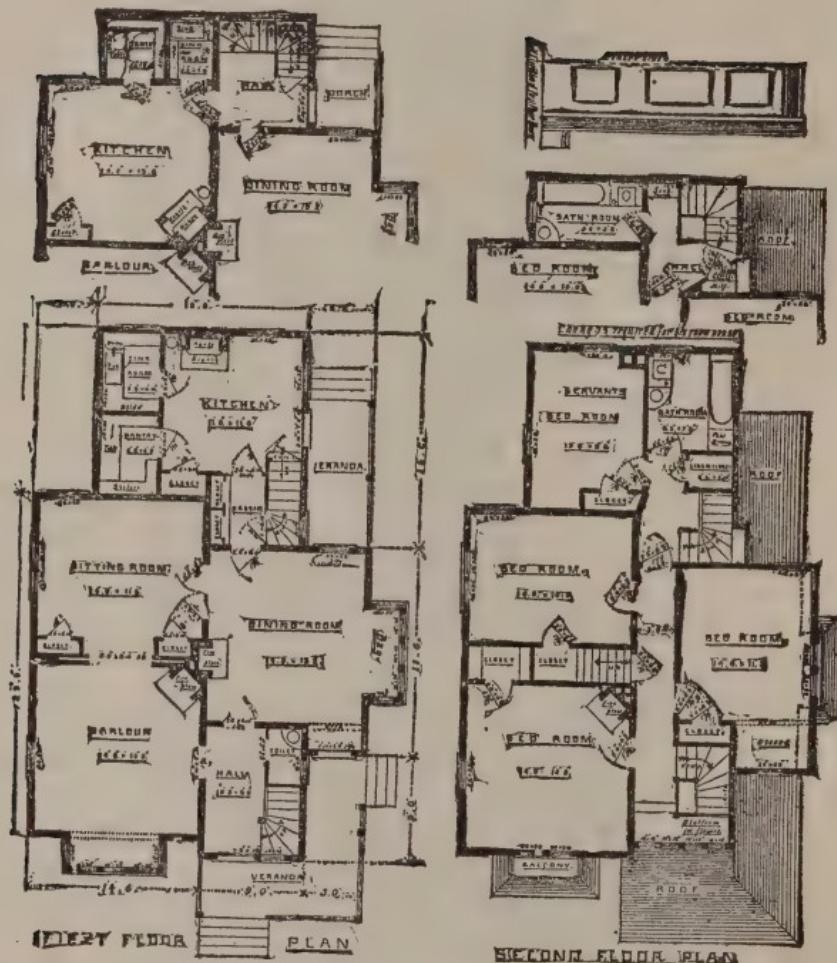


REAR ELEVATION.

No. 30.—*Elevation of Modern Eight Room Cottage.*

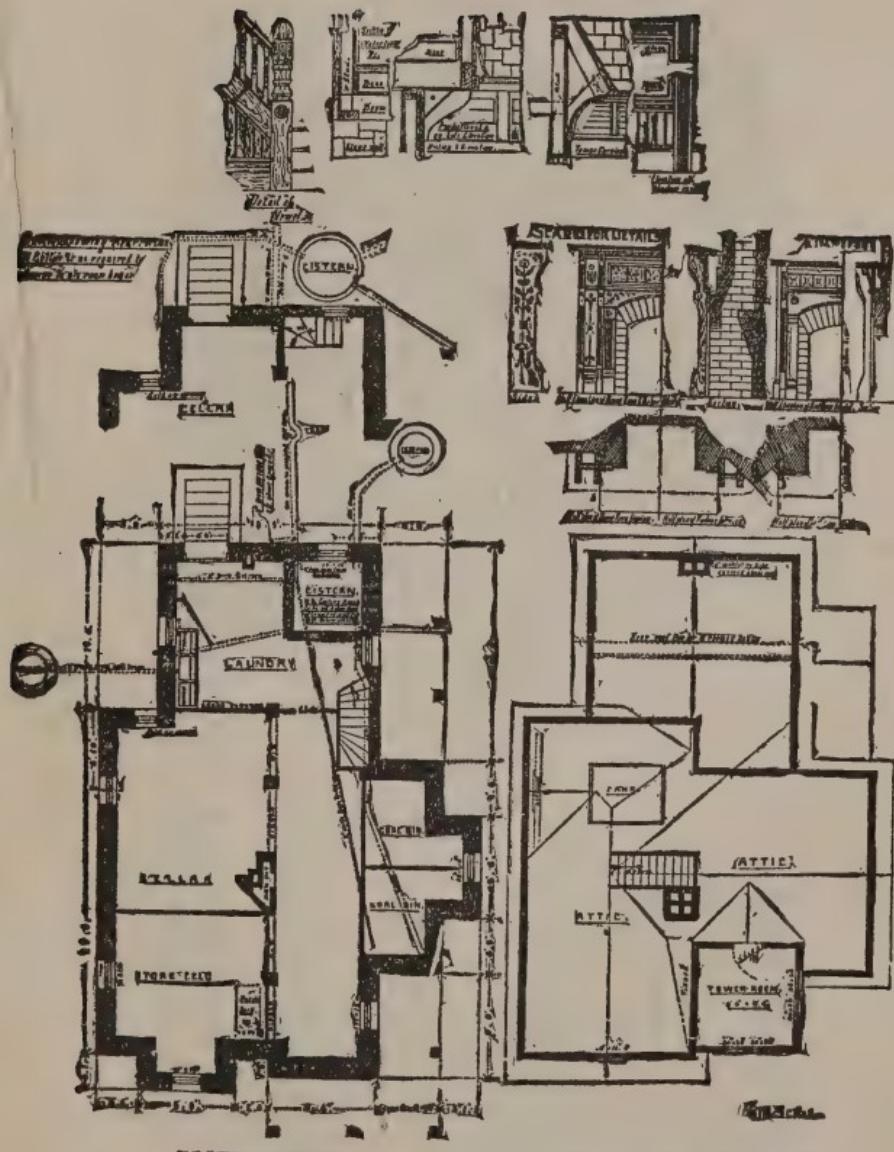
Plans of this Cottage furnished by Palliser, Palliser & Co., Architects, Bridgeport, Conn.

**Plan showing changes required for  
six-room house.**



**No. 30.—Floor Plans of Modern Eight Room Cottage.**

Plans of this Cottage furnished by Palliser, Palliser & Co.,  
Architects, Bridgeport, Conn.



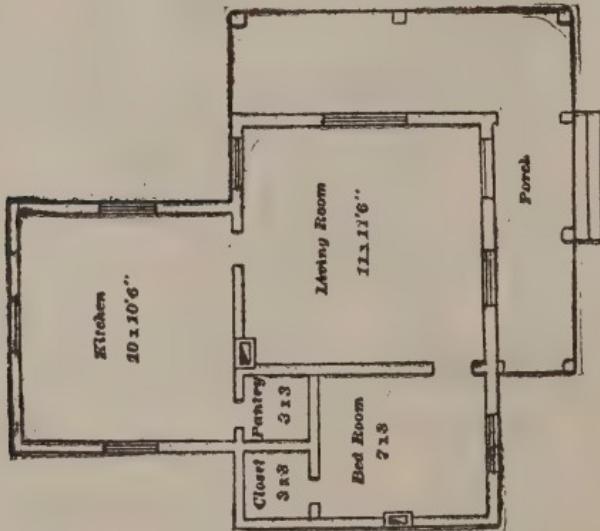
**No. 30.—Floor Plans of Modern Eight Room Cottage.**

**Plans of this Cottage furnished by Palliser, Palliser & Co.,  
Architects, Bridgeport, Conn.**

## DESIGN No. 31.



FRONT ELEVATION.



FLOOR PLAN.

MULTUM IN PARVO COTTAGE.

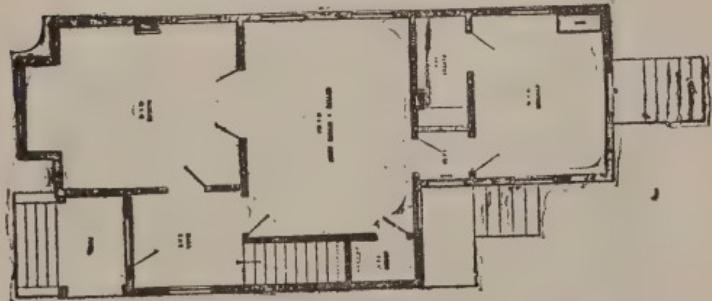
Size — 23 feet deep, 20 feet wide.

## DESIGN No. 32.

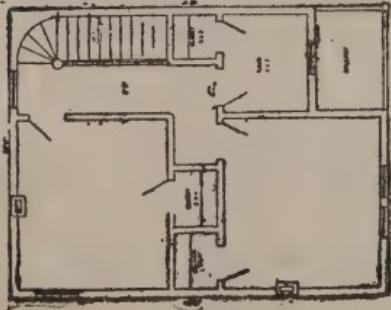


FRONT ELEVATION.

FIRST FL.



SECOND FLOOR.

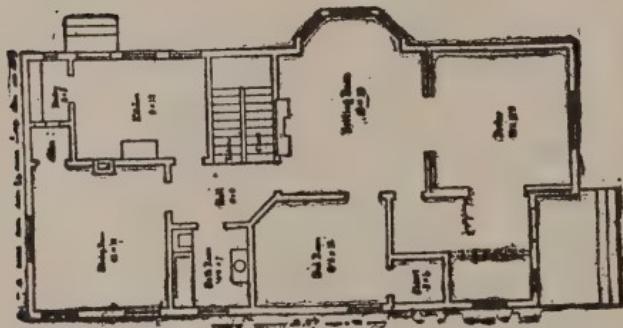


A Handsome and  
Commodious Res-  
idence.

Size—43 feet deep, 20 feet wide.



FRONT ELEVATION.

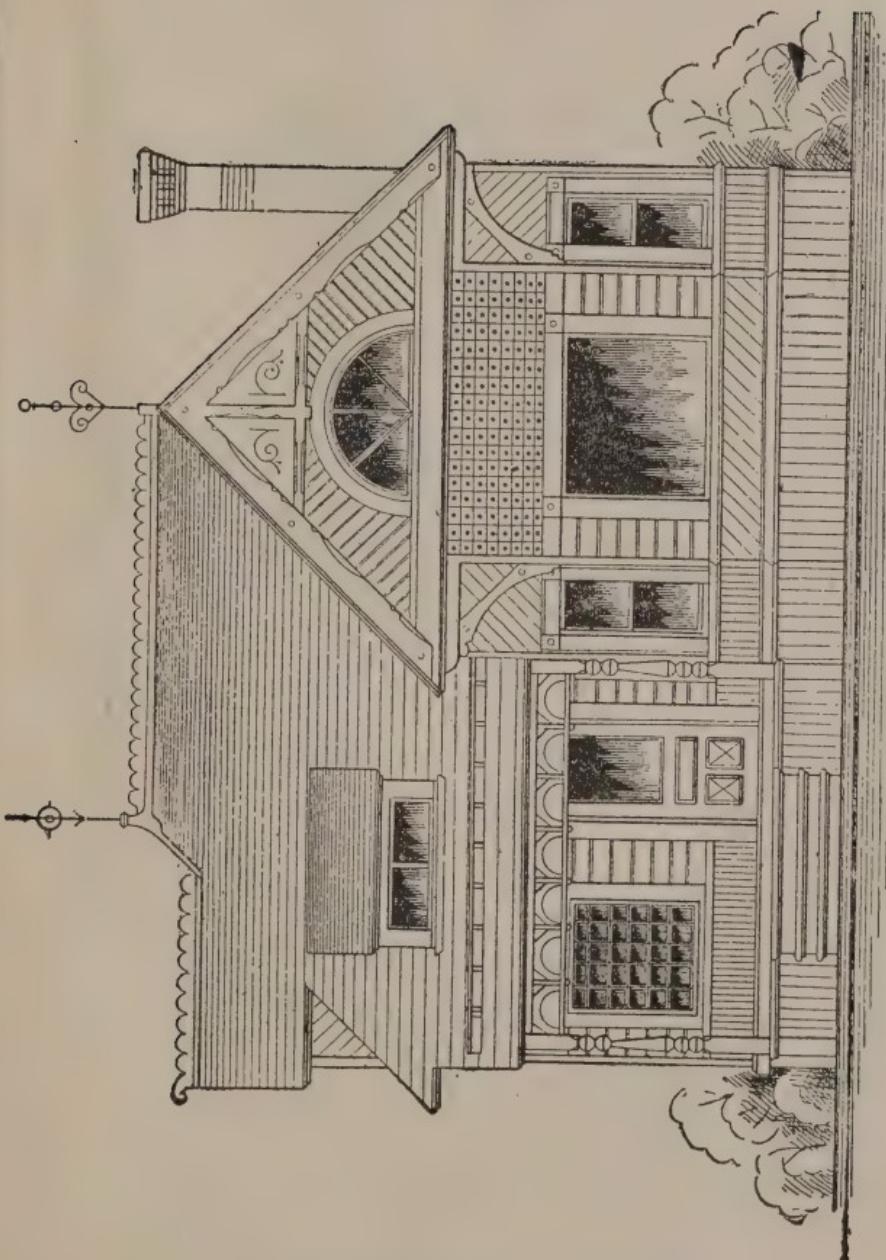


FLOOR PLAN.

A Very Handsome Cottage with no Waste  
of Room.

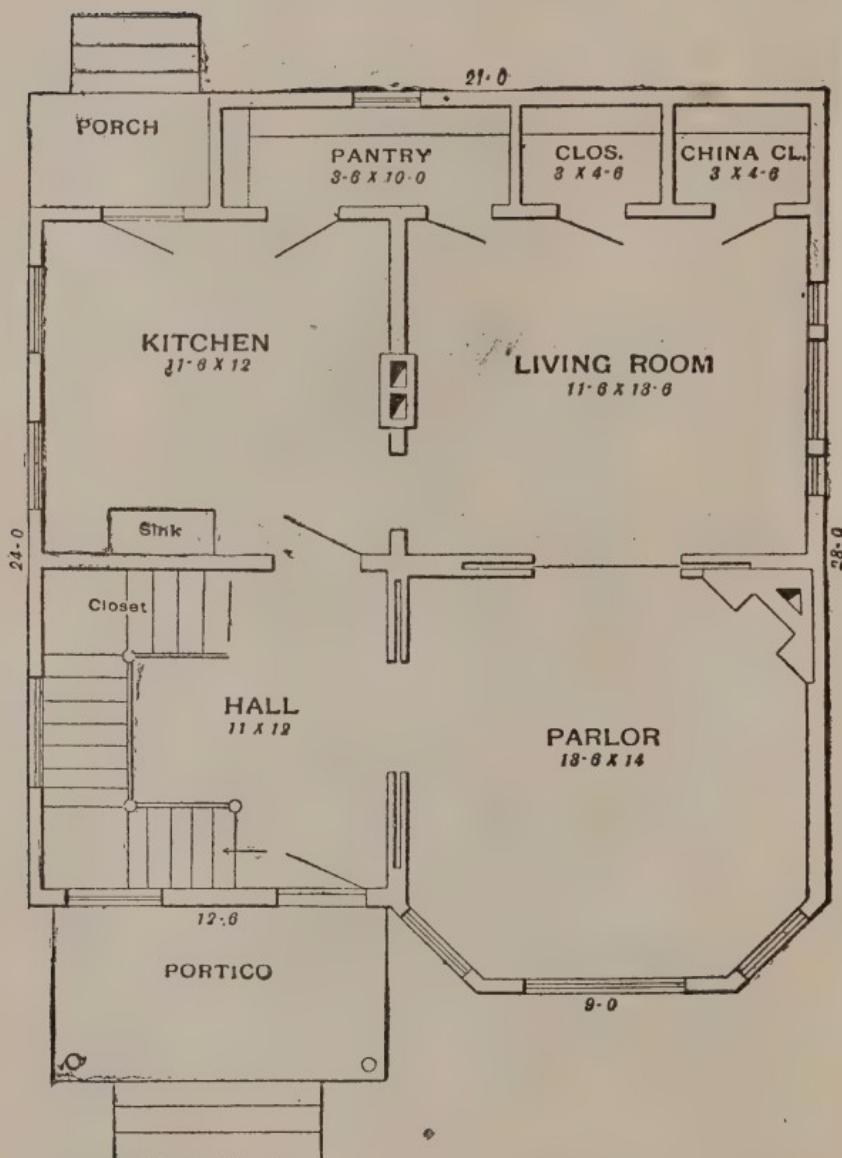
Size—46 feet deep, 24 feet wide.

## DESIGN No. 34.



OAKLAND COTTAGE.

## DESIGN No. 34.



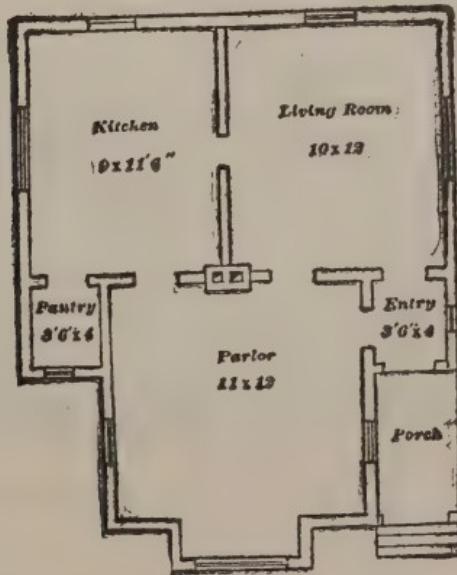
FLOOR PLAN.

OAKLAND COTTAGE.

## DESIGN No. 35.



FRONT ELEVATION.

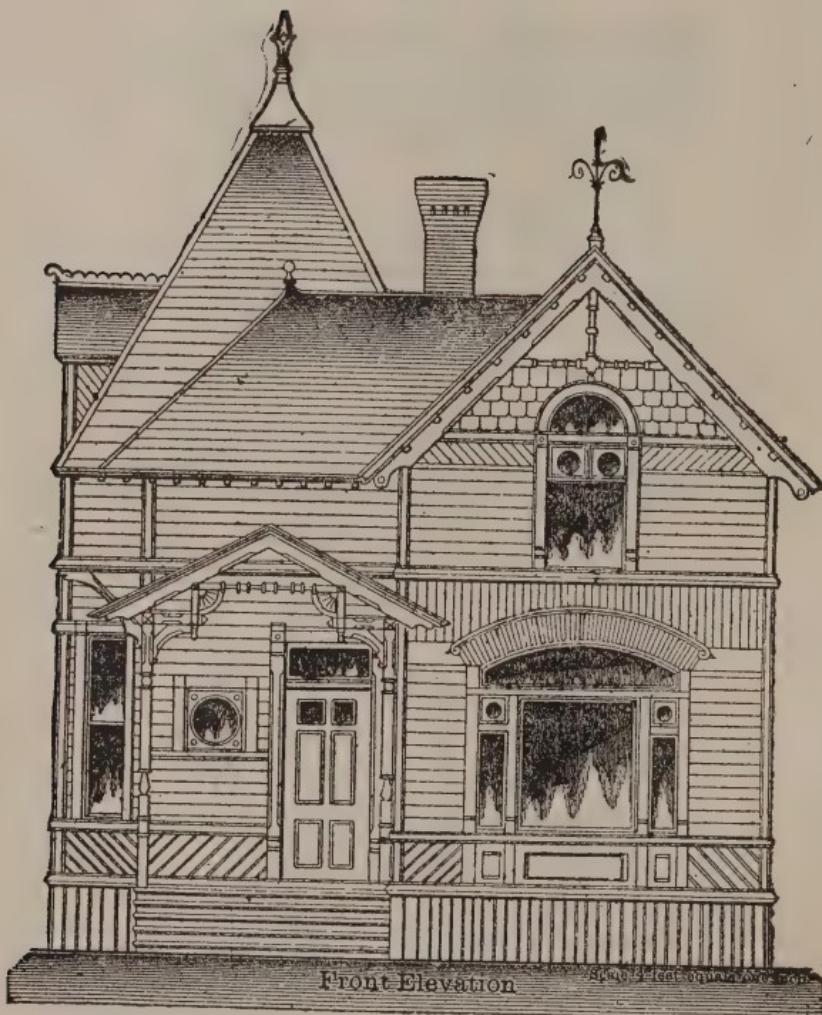


FLOOR PLAN.

ROSEBUD COTTAGE.

Size—26 feet deep, 21 feet wide.

## DESIGN No. 36.



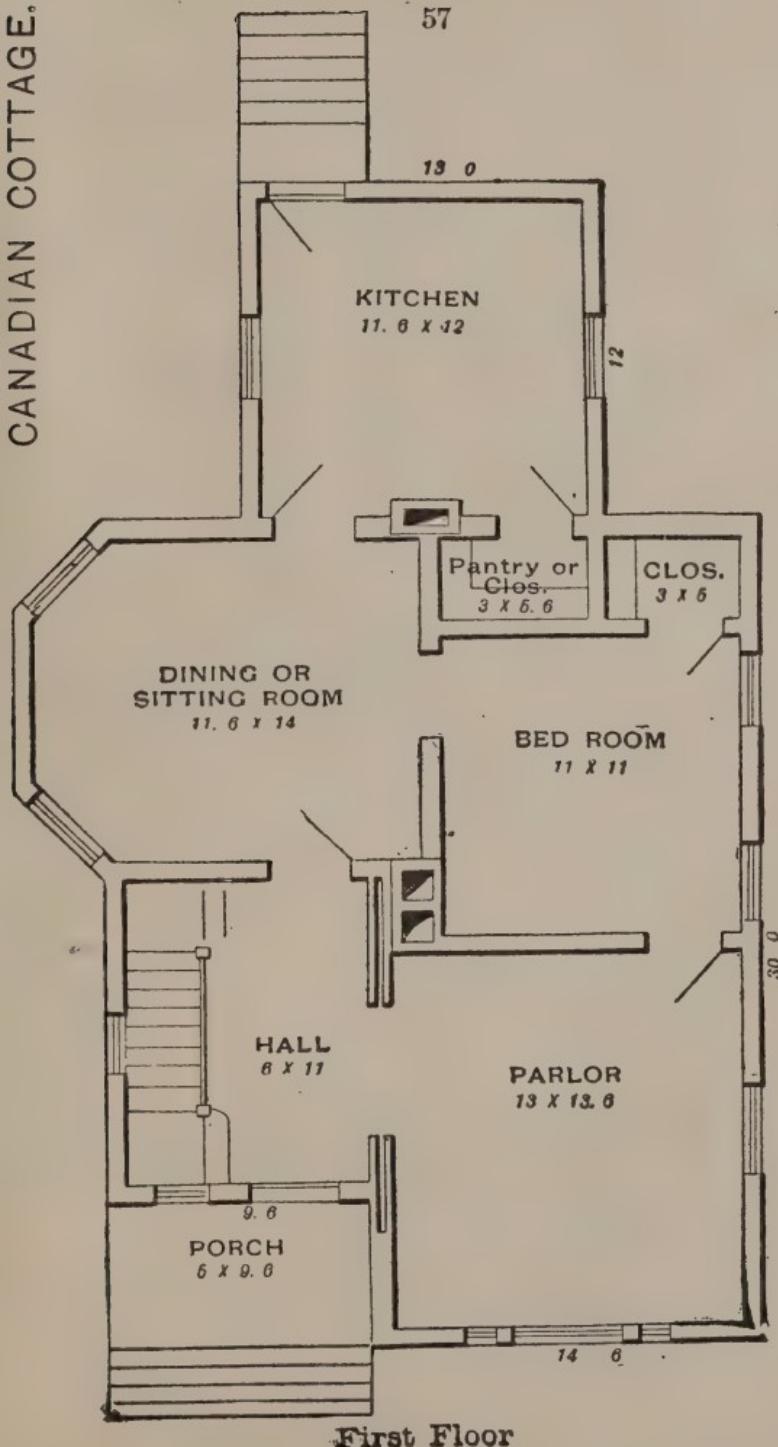
Front Elevation

Price 12<sup>c</sup>

CANADIAN COTTAGE

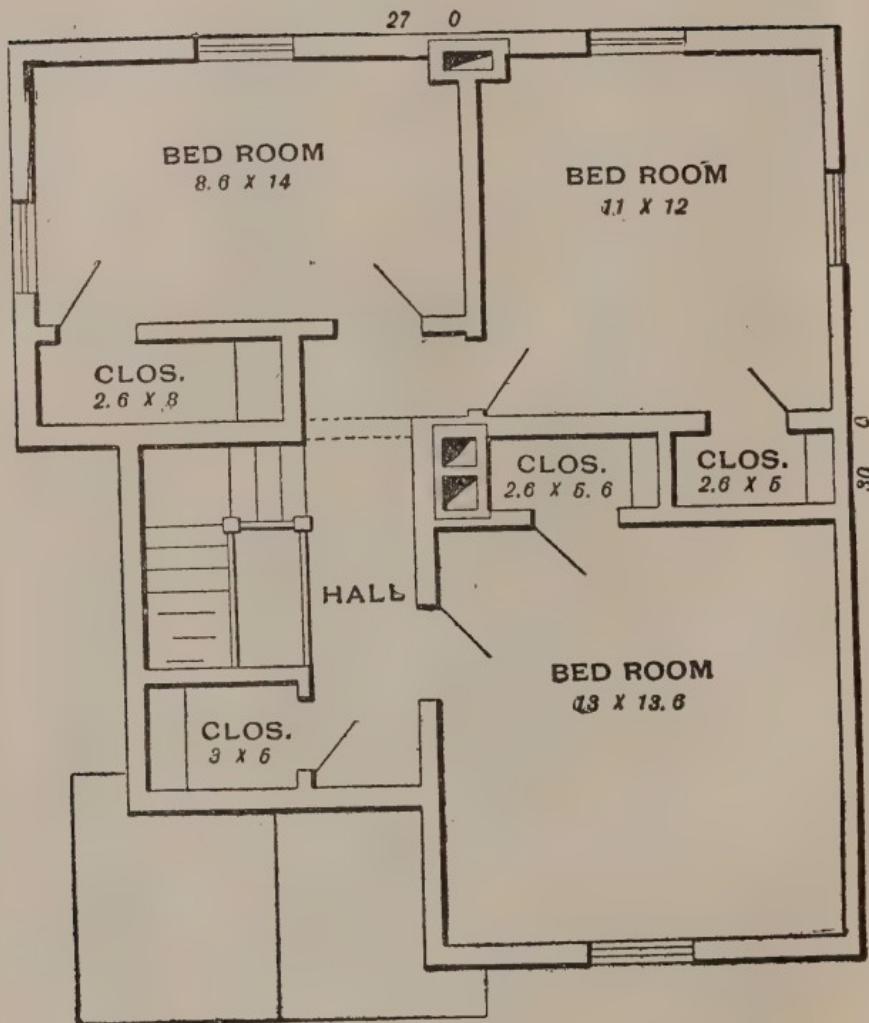
CANADIAN COTTAGE.

57



First Floor

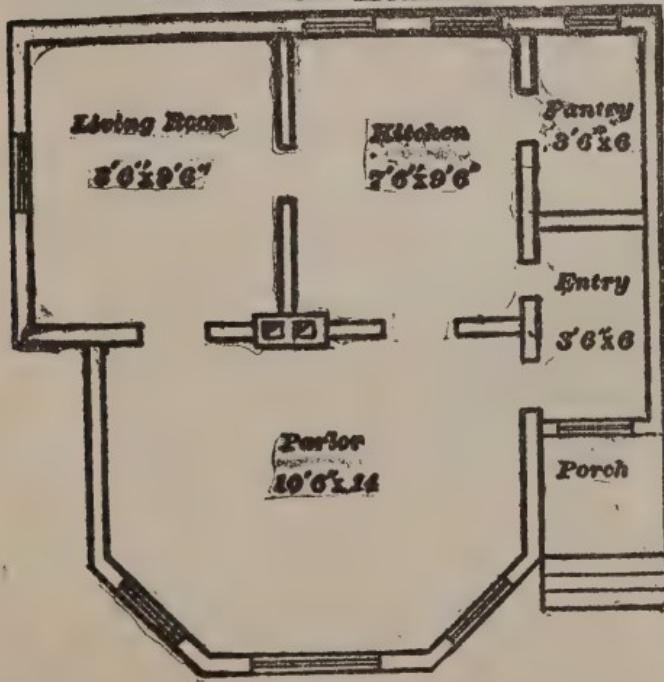
## DESIGN No. 36.



SECOND FLOOR PLAN.

CANADIAN COTTAGE.

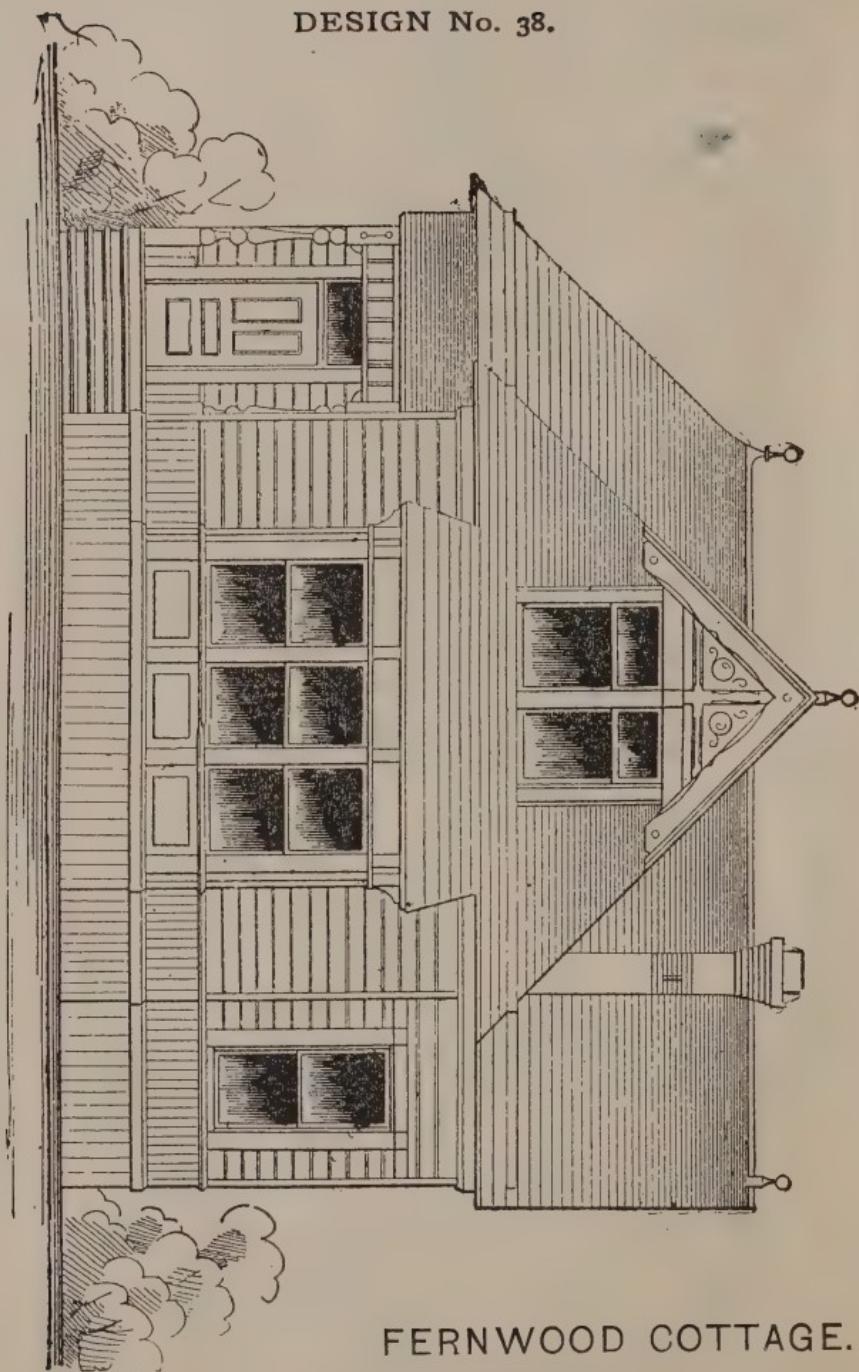
## DESIGN No. 37.



LAWNDALE COTTAGE.

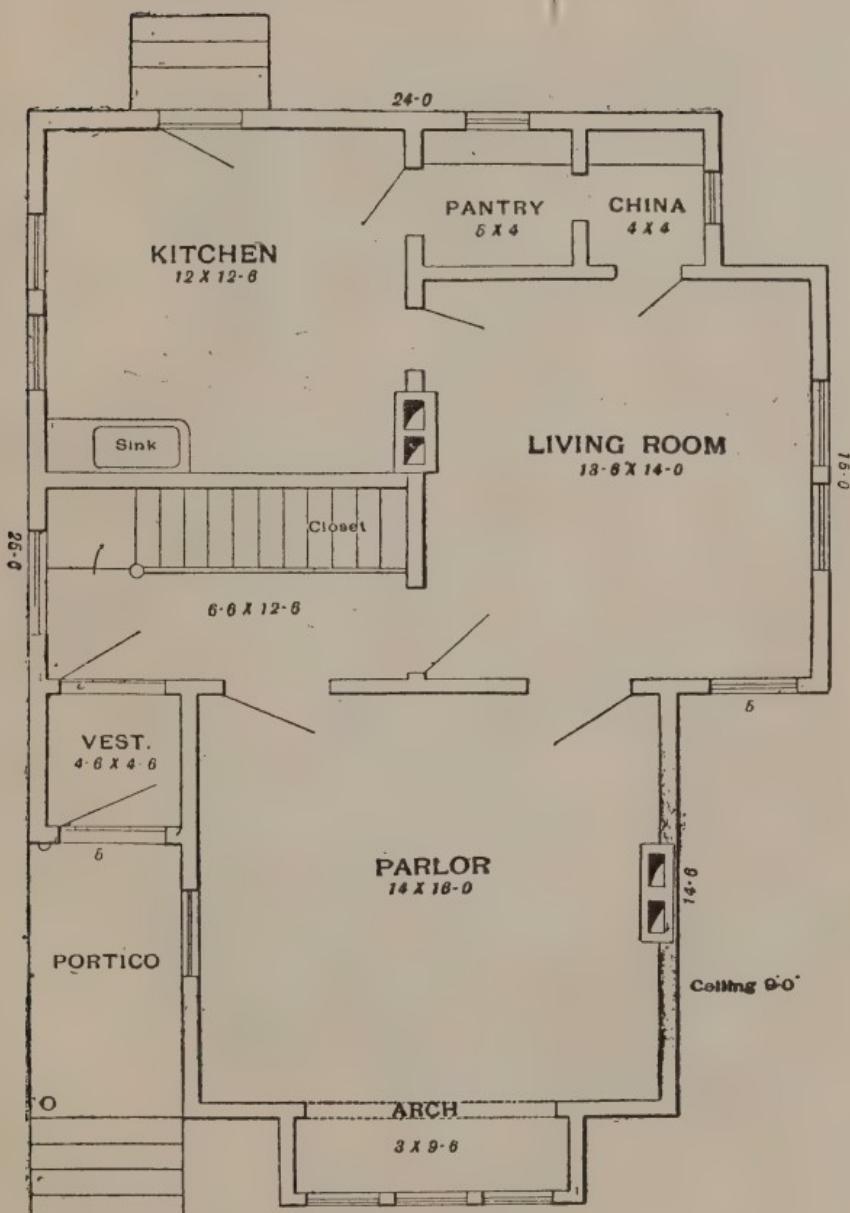
Size—22 feet deep, 22 feet wide.

## DESIGN No. 38.



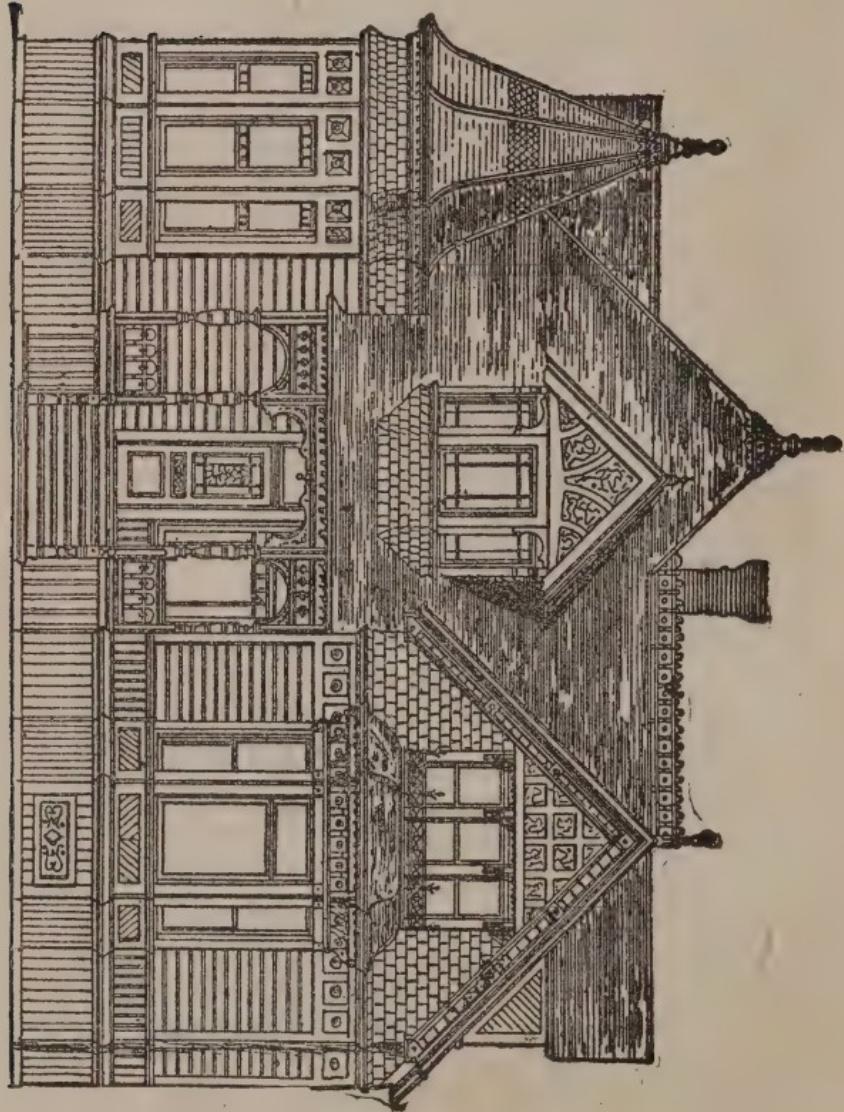
FERNWOOD COTTAGE.

## FERNWOOD COTTAGE.



FLOOR PLAN.

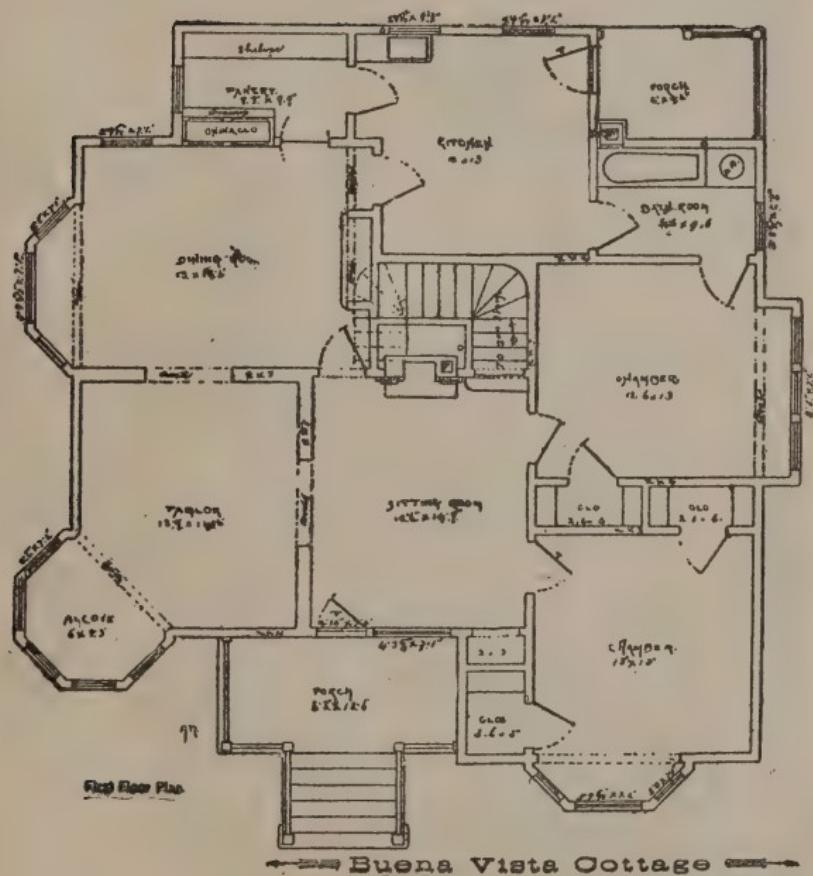
## DESIGN No. 39.



FRONT ELEVATION.

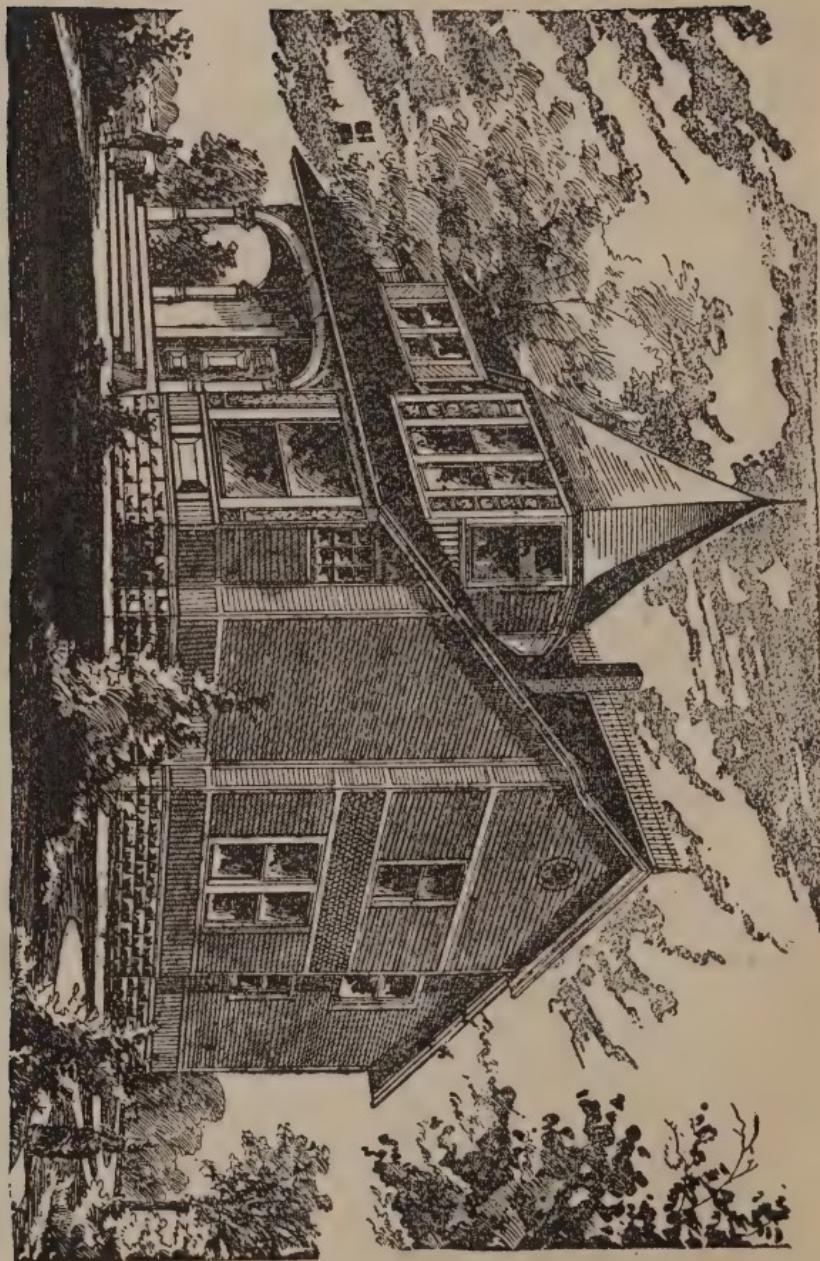
BUENA VISTA COTTAGE.

## DESIGN No. 39.



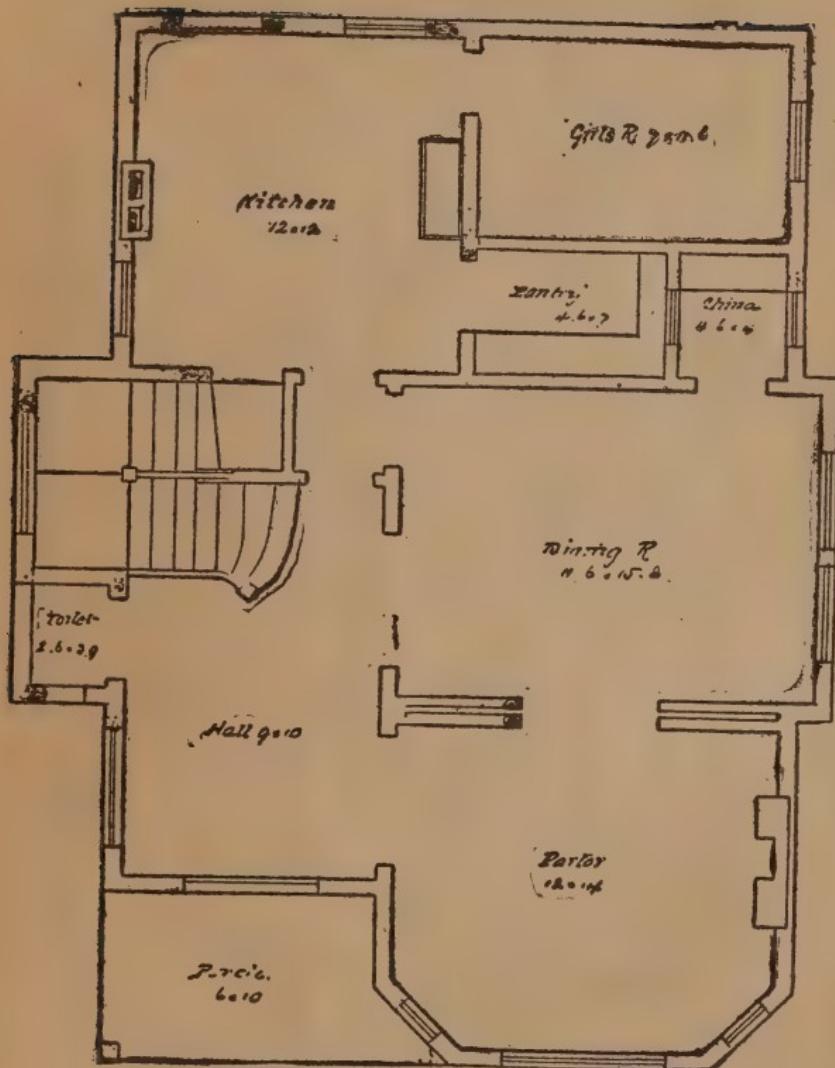
BUENA VISTA COTTAGE.

## DESIGN No. 40.



KENWOOD VILLA.

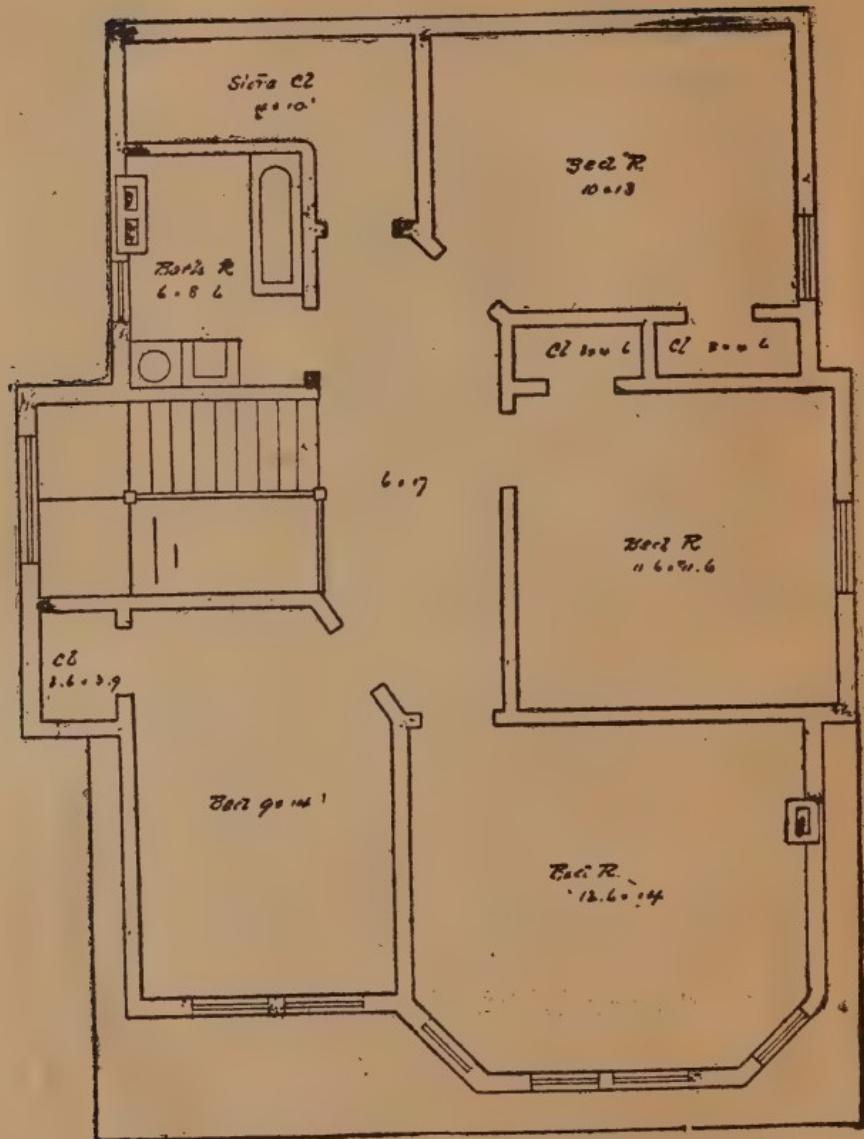
## DESIGN No. 40.



KENWOOD VILLA.

GROUND PLAN.

## DESIGN No. 40.



KENWOOD VILLA.

## SPECIFICATIONS.

We present in the following pages a list of specifications for the houses, etc., illustrated from page 480 to page 542 of this book. They will be found a complete list of materials, and any one who may desire to build according to the following plans may feel perfectly secure in buying the materials according to these specifications. For the very handsome designs illustrated on pages 490, 499, 525, 526, 527, 528, 530, 531, 534, 535, 537, and 539, we are indebted to the kindness of *The National Builder*, published at 116 La Salle street, Chicago. *The National Builder* is devoted to the interests of those who contemplate building homes, and to internal decorations. We have also made arrangements with the above paper whereby any one of our readers who may wish to build from any of the designs illustrated on the above specified pages can obtain, by remitting *the very small sum of twenty-five cents to The National Builder, full detail working plans and complete specifications* of any one of these twelve beautiful designs. When it is known that the usual cost of an architect's plans will average at least \$50, we feel sure that this grand offer will be appreciated. *In sending for these detail working plans it will be necessary for you to state that you have purchased a copy of this book.*

---

### DESIGN No. 1.

2 ps. 6x8 22; 3 ps. 6x8 14; 2 ps. 6x8 12; 16 ps. 2x8 14; 17 ps. 2x6 14; 1 ps. 2x6 18; 3 ps. 2x6 12; 52 ps. 2x4 16; 32 ps. 2x4 14; 53 ps. 2x4 12; 25 ps. 2x4 10; 900 ft. rough sheathing; 1,200 ft. sheathing d 1 s; 1,400 ft. siding; 900 ft. flooring; 7,000 shingles; 800 ft. finishing; 150 ft. wainscoting; 60 ft.  $\frac{3}{8}$  ceiling; 4,700 laths; 3 doors, 2 8x6 8,  $\frac{1}{2}$  in., No. 1; 8 doors, 2 6x6 6,  $\frac{1}{2}$  in. No. 1; 7 windows 12x28 4 lt.; 2 windows 12x24 4 lt.; 4 ps. 2x8 18, d and b; 220 ft. O G base; 500 ft. O G casing; 130 lbs. pl. paper; 120 lbs. tar paper; 2 cellar windows, 8x10 3 lt.: 2 ps. 4x4 16; 150 ft.  $\frac{3}{8}$  in. O G crown molding; 150 ft.  $1\frac{1}{8}$ x $1\frac{3}{4}$  in. Scotia; 48 ft. large drip; 48 ft.  $1\frac{1}{4}$ x $2\frac{1}{2}$  in. nosing; 130 ft. blind stop; 130 ft. parting strip; 130 ft.  $1\frac{1}{8}$  O G stop; 170 ft.  $1\frac{1}{4}$  O G stop; 48 ft.  $1\frac{1}{8}$ x $2\frac{1}{2}$  in. cap; 58 ft.  $\frac{3}{4}$ x1 in. Scotia; 48 ft.  $\frac{3}{4}$  in. quarter-round; 1 cord stone, 12-in. wall; 800 brick; 15 gal. paint; 9 bbls. lime; 1 bbl. stucco; 3 bu. hair; 1 bbl. cement; nails, 50 lbs. 2od, 100 lbs. 1od, 50 lbs. 8d, 20 lbs. 6d, 25 lbs. 3d com., 30 lbs. 3d fine, 25 lbs. 1od casing; 11 mortise locks; 11 pair butts;  $2\frac{1}{4}$  doz. window springs; 2 doz. wardrobe hooks; 5 6-in. thimbles. Main part 14x22, 12 ft.; ell, 12x14, 8 ft. with porch.

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### DESIGN No. 2.

2 ps. 6x8 22; 2 ps. 6x8 18; 3 ps. 6x8 14; 4 ps. 2x8 18; 60 ps. 2x8 14; 2 ps. 4x4 16; 83 ps. 2x4 10; 37 ps. 2x4 12; 40 ps. 2x4 14; 43 ps. 2x4 16;

39 ps. 2x4 18; 1,500 ft. sheathing, d 1 s; 940 ft. rough sheathing; 1,700 ft. siding; 1,600 ft. flooring; 8,000 shingles; 1,000 ft. finishing; 120 ft. wainscoting; 120 ft.  $\frac{3}{8}$  ceiling; 8,000 lath; 4 doors, 2 8x6 8,  $\frac{1}{3}$  No. 1; 13 doors, 2 6x6 6,  $\frac{1}{3}$  No. 1; 6 windows 12x24 4 lt.; 9 windows 12x28 4 lt.; 5 ps. 2x8 18 d and b; 400 ft. O G base; 750 ft. O G casing; 155 lbs. pl. paper; 125 lbs. tar paper; 2 cellar sash, 8x10 3 lt.; 170 ft.  $4\frac{1}{2}$  in. O G crown molding; 170 ft.  $2\frac{1}{2}$  in. O G crown molding; 80 ft. large drip; 80 ft.  $1\frac{1}{4}$ x $2\frac{1}{2}$  in. nosing; 220 ft. parting strip; 220 ft.  $1\frac{3}{8}$  O G stop; 220 ft. blind stop; 300 ft.  $1\frac{3}{4}$  O G stop; 40 ft.  $1\frac{1}{8}$ x $2\frac{1}{2}$  in. cap; 40 ft.  $\frac{3}{4}$ x1 in. Scotia; 40 ft.  $\frac{3}{4}$  in. quarter-round; 1 cord stone, 12 in. high; 1,300 brick; 25 gal. paint; 16 bbls. lime; 1 bbl. stucco; 4 bu. hair; 1 bbl. cement; nails, 60 lbs. 2od; 140 lbs. rod; 35 lbs. 3d; 25 lbs. 6d; 50 lbs. 8d com., 60 lbs. 3d fine; 25 lbs. rod casing; 17 mortise locks; 17 pr. butts and screws; 3 $\frac{3}{4}$  doz. window springs; 3 doz. wardrobe hooks; 4 6-in. thimbles. Main part 14x22, 14 ft. high; ell part 14x18 12 ft. high, with porch.

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### DESIGN No. 3.

2 ps. 6x8 26; 5 ps. 6x8 16; 54 ps. 2x8 16; 13 ps. 2x6 16; 2 ps. 4x4 18; 17 ps. 2x4 20; 47 ps. 2x4 18; 62 ps. 2x4 16; 28 ps. 2x4 14; 83 ps. 2x4 12; 1,800 ft. sheathing, d 1 s; 1,200 ft. sheathing; 2,100 ft. siding; 1,600 ft. flooring; 10,000 shingles; 1,260 ft. finishing; 160 ft. wainscoting; 120 ft.  $\frac{3}{8}$  ceiling; 7,600 lath; 3 doors 2 8x6 8,  $\frac{1}{3}$  No. 1; 10 doors 2 6x6 6,  $\frac{1}{3}$  No. 1; 8 windows 12x28, 4 lt.;  $4\frac{1}{2}$  window 12x24 4 lt.; 4 ps. 2x8 18 d and b; 380 ft. O G base; 600 ft. O G casing; 200 lbs. pl. paper; 165 lbs. tar paper; 2 cellar sash, 8x10 3 lt.; 200 ft.  $4\frac{1}{2}$  in. O G crown molding; 190 ft.  $2\frac{1}{2}$  in. O G crown molding; 48 ft. large drip; 48 ft.  $1\frac{1}{4}$ x $2\frac{1}{2}$  in. nosing; 48 ft.  $1\frac{1}{8}$ x $2\frac{1}{2}$  in. cap; 48 ft.  $\frac{3}{4}$ x1 in. Scotia; 48 ft.  $\frac{3}{4}$  in. quarter-round; 200 ft. blind stop; 180 ft. parting strip; 180 ft.  $1\frac{3}{8}$  O G stop; 230 ft.  $1\frac{3}{4}$  O G stop;  $1\frac{1}{2}$  cords stone 15 in. high; 900 brick; 23 gal. paint; 15 bbls. lime; 1 bbl. stucco; 4 bus. hair; 1 bbl. cement; nails, 100 lbs. 2od, 200 lbs. rod, 60 lbs. 8d, 30 lbs. 6d, 30 lbs. rod casing, 40 lbs. 3d com., 60 lbs. 3d fine; 13 mortise locks; 13 pr. butts; 3 doz. window spring bolts; 3 doz. wardrobe hooks; 5 thimbles 6-in. Main part 16x26, 16 ft. high; ell part 16x16, 9 ft. high, porch on the front of kitchen.

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### DESIGN No. 5.

2 ps. 6x8 26; 2 ps. 6x8 22; 2 ps. 6x8 20; 1 ps. 6x8 16; 22 ps. 2x8 20; 11 ps. 2x8 16; 17 ps. 2x6 16; 2 ps. 4x4 18; 15 ps. 2x4 20; 88 ps. 2x4 18; 94 ps. 2x4 16; 45 ps. 2x4 14; 34 ps. 2x4 12; 10 ps. 2x4 10; 2,150 ft. sheathing, d 1 s; 1,600 ft. rough sheathing; 2,500 ft. siding; 1,830 ft. flooring; 13,000 shingles; 1,250 ft. finishing; 180 ft. wainscoting; 150 ft.  $\frac{3}{8}$  ceiling; 10,000 lath; 1 door 2 10x6 10, glazed and transom; 2 doors 2 8x6 8,  $\frac{1}{3}$  No. 1; 18 doors 2 6x6 6,  $\frac{1}{3}$  No. 1; 8 windows, 12x28 4 lt.; 5 windows, 12x24, 4 lt.; 4 ps. 2x8 18 d and b; 540 ft. O G base; 900 ft. O G casing; 240 lbs. pl. paper; 220 lbs. tar paper; 2 cellar sash, 8x10 3 lt.; 200 ft.  $4\frac{1}{2}$  in. O. G. crown molding; 200 ft.  $2\frac{1}{2}$  in. O G crown molding; 44 ft.  $1\frac{1}{8}$ x $2\frac{1}{2}$  in. cap; 44 ft.  $\frac{3}{4}$ x1 in. Scotia; 44 ft.  $\frac{3}{4}$  in. quarter-round; 64 ft. large drip; 64 ft.  $1\frac{1}{4}$ x $2\frac{1}{2}$  in. nosing; 180 ft.  $1\frac{3}{8}$  O G stop; 180 ft. parting strip; 200 ft. blind stop; 380 ft.  $1\frac{3}{4}$  O G stop; newel stair rail and balusters;  $1\frac{1}{2}$  cords stone, 12 in. high; 900 brick; 27 gals. paint; 21 bbls. lime; 2 bbls. stucco; 5 bu. hair; 2 bbls. cement; nails, 100 lbs. 2od, 200 lbs. rod, 60 lbs. 8d, 40 lbs. 6d, 50 lbs.

3d com., 40 lbs. rod casing, 75 lbs. 3d fine; 19 mortise locks; 21 pairs hinges; 3½ doz. window springs; 4 doz. wardrobe hooks; 5 thimbles, 6-in. Main part 20x26 ft. high; ell, 16x22 9 ft. high, with porch.

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### DESIGN No. 6.

3 ps. 6x8 20; 4 ps. 6x8 16; 2 ps. 6x8 18; 50 ps. 2x8 18; 24 ps. 2x8 20; 5 ps. 2x8 16; 4 ps. 4x4 18; 10 ps. 2x8 14; 4 ps. 4x6 20; 27 ps. 2x4 18; 136 ps. 2x4 16; 20 ps. 2x4 14; 71 ps. 2x4 12; 82 ps. 2x4 10; 1,750 ft. sheathing, d 1 s; 1,800 ft. rough sheathing; 2,000 ft. siding; 2,500 ft. flooring; 15,000 shingles; 1,300 ft. finishing; 180 ft. ⅓ wainscoting; 320 ft. ⅔ ceiling; 9,000 lath; 1 glazed door and transom; 2 doors, 2 8x6 8, 1⅓; 10 doors, 2 6x6, 1⅓; 5 doors, 2 ox5 o, in. batten; 11 win. 12x28, 4 ft.; 6 win. 12x24, 4 ft.; 5 ps. 2x8 18 d and b; 450 ft. O G base; 720 ft. O G casing; 200 lbs. pl. paper; 250 lbs. tar paper; 2 cel. sash, 8x10, 3 ft.; 200 ft. 4½ in. O G crown molding; 200 ft. 2½ in. O G crown molding; 80 ft. large drip; 80 ft. 1¼x2½ in. nosing; 250 ft. blind stop; 240 ft. parting strip; 240 ft. 1⅓ O G stop; 288 ft. 1⅓ O G stop; 50 ft. 1⅓x2½ in. cap; 50 ft. ¾x1 in. Scotia; 50 ft. ¾ in. quarter-round; 1¼ cords stone, 12 in.; 1,300 brick; 25 gal. paint; 16 bbls. lime; 1 bbl. stucco; 5 bu. hair; 1 bbl. cement; nails, 100 lbs. 2od, 200 lbs. rod, 60 lbs. 8d, 40 lbs. 6d, 50 lbs. 3d com., 30 lbs. rod casing, 70 lbs. 3d fine; 13 mortise locks; 13 pair 3½x3½ butts; 5 rim latches; 5 rim 2x2 butts; 4¼ win. spring bolts; 3 doz. wardrobe hooks; 4 thimbles. Main part 17-6x34; ell part 16x15-6, 10 ft. high, ½ pitch roof, with porch, 4 ft., 4 gables and front veranda.

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### DESIGN No. 7.

2 ps. 6x8 28; 2 ps. 6x8 18; 42 ps. 2x8 18; 8 ps. 2x4 18; 42 ps. 2x4 16; 16 ps. 2x4 14; 96 ps. 2x4 12; 22 ps. 2x4 10; 1,280 ft. sheathing, d 1 s; 750 ft. rough sheathing; 1,500 ft. siding; 1,370 ft. flooring; 6,000 shingles; 680 ft. finishing; 140 ft. ⅔ wainscoting; 5,700 lath; 2 doors, 2 8x6 8, 1⅓ No. 1; 11 doors, 2 6x6 6, 1⅓ No. 1; 6 win. 12x28, 4 ft.; 4 win. 12x24, 4 ft.; 3 ps. 2x8 18 d and b; 280 ft. O G base; 600 ft. O G casing; 140 lbs. pl. paper; 100 lbs. tar paper; 2 cel. sash 8x10, 3 ft.; 120 ft. 3½ in. O G crown molding; 110 ft. 1⅓x1⅓ in. Scotia; 52 ft. large drip; 52 ft. 1¼x2½ in. nosing; 150 ft. blind stop; 150 ft. parting strip; 150 ft. 1⅓ O G stop; 220 ft. 1⅓ O G stop; 36 ft. 1⅓x2½ in. cap; 36 ft. ¾x1 in. Scotia; 36 ft. ¾ in. quarter-round; 1 cord stone; 450 brick; 15 gal. paint; 11 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 3 bu. hair; nails 50 lbs. 2od, 100 lbs. rod, 30 lbs. 8d, 25 lbs. 6d, 20 lbs. 3d com., 20 lbs. rod casing, 40 lbs. 3d fine; 13 mortise locks; 13 pair butts; 2¾ doz. win bolts; 2 doz. wardrobe hooks; 3 thimbles. Estimated for 18x28 12 ft. high, wth storm house over door.

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### DESIGN No. 8.

2 ps. 6x8 28; 2 ps. 6x8 20; 3 ps. 6x8 14; 42 ps. 2x8 20; 28 ps. 2x8 14, 3 ps. 4x4 18; 43 ps. 2x4 20; 32 ps. 2x4 18; 117 ps. 2x4 16; 66 ps. 2x4 14; 11 ps. 2x4 12; 2,500 ft. sheathing d 1 s; 1,200 ft. rough sheathing, 3,000 ft. siding; 2,240 ft. flooring; 9,500 shingles; 1,300 ft. finishing; 180 ft. ⅔ wainscoting; 200 ft. 3x8 ceiling; 9,000 lath; 1 door glazed and

transom; 2 doors 2 8x6 8, 1 $\frac{3}{8}$  No. 1; 13 doors 2 6x6 1 $\frac{3}{8}$  No. 1; 7 windows 12x28 4 lt.; 2 win. 12x28 2 lt.; 11 win. 12x24 4 lt.; 6 ps. 2x8 18, d and b; 400 ft. O G base; 800 ft. O G casing; 260 lbs. pl. paper; 160 lbs. tar paper; 2 cel. sash 8x10 3 lt.; 200 ft. 4 $\frac{1}{2}$  in. O G crown molding; 200 ft. 2 $\frac{1}{2}$  in. O G crown molding; 290 ft. 1 $\frac{3}{4}$  O G stop; 280 ft. 1 $\frac{3}{8}$  O G stop; 280 ft. parting strips; 280 ft. blind stops; 90 ft. large drip; 90 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$  in. nosing; 48 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$  in. cap; 48 ft. 3 $\frac{1}{4}$ x1 in. Scotia; 48 ft. 3/4 in. quarter round; 2 cords stone 18 in. high; 1,000 bricks; 28 gals. paint; 17 bbls. lime; 1 bbl. stucco; 4 bu. hair; 1 bbl. cement; nails, 100 lbs. 2od, 200 lbs. 1od, 60 lbs. 8d, 50 lbs. 6d, 40 lbs. 3d com., 70 lbs. 3d fine, 40 lbs. rod casing; 16 mortise locks; 16 pr. butts and screws; 2 $\frac{1}{2}$  doz. window spring bolts; 3 doz. wardrobe hooks; 5 flue thimbles; stair rail and balusters. Main part 20x28 ft.; ell part 14x14, 16 ft. high, with two porches and bay window.

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### DESIGN No. 10.

3 ps. 6x8 32; 2 ps. 6x8 30; 1 ps. 6x8 20; 48 ps. 2x8 16; 24 ps. 2x8 14; 6 ps. 2x8 10; 16 ps. 2x4 20; 42 ps. 2x4 18; 126 ps. 2x4 16; 54 ps. 2x4 14; 60 ps. 2x4 12; 2,000 ft. sheathing, d 1 s; 1,600 ft. rough sheathing; 2,400 ft. siding; 1,800 ft. flooring; 12,000 shingles; 1,000 ft. finishing; 180 feet wainscoting; 9,000 lath; 1 pair doors, 4 ox7 o, 1 $\frac{3}{4}$ , and transom; 2 doors, 2 8x6 8, 1 $\frac{3}{8}$ , No. 1; 14 doors, 2 6x6 6, 1 $\frac{3}{8}$ , No. 1; 9 win. 12x28 4 lt.; 6 win. 12x24 4 lt.; 5 ps. 2x8 18 d and b; 450 ft. O G base; 760 ft. O G casing; 220 lbs. pl. paper; 210 lbs. tar paper; 2 cel. sash, 8x10, 3 lt.; 170 ft. 3 $\frac{1}{2}$  in. O G crown molding; 170 ft. 1 $\frac{1}{8}$ x1 $\frac{3}{4}$  in. Scotia; 72 ft. large drips; 72 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$  in. nosing; 200 ft. blind stop; 200 ft. parting strip; 200 ft. 1 $\frac{3}{8}$  O G stops; 300 ft. 1 $\frac{3}{4}$  O G stops; 50 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$  in. cap, 50 ft. 3 $\frac{1}{4}$ x1 in. Scotia; 50 ft. 3/4 in. quarter-round 1 $\frac{1}{2}$  cords stone, 12 in. high; 1,000 brick; 21 gal. paint; 17 bbls. lime; 1 bbl. stucco; 4 bu. hair; 1 bbl. cement; nail, 60 lbs. 2od, 205 lbs. 1od, 60 lbs. 8d, 40 lbs. 6d, 50 lbs. 3d com., 70 lbs. 3d fine, 25 lbs. 1od casing; 16 mortise locks; 18 pair butts and screws; 3 $\frac{1}{4}$  doz. win. bolts; 3 doz. wardrobe hooks; 4 flue thimbles. Main part, 16x32, 16 ft. high. Lean-to on side, 14x32, 8 ft. on side. Vestibule in front, with gable.

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### DESIGN No. 11.

2 ps. 6x8 26; 4 ps. 6x8 16; 2 ps. 6x8 14; 4 ps. 6x8 12; 60 ps. 2x8 16; 9 ps. 2x8 14; 20 ps. 2x6 14; 24 ps. 2x4 20; 56 ps. 2x4 18; 90 ps. 2x4 16; 36 ps. 2x4 14; 100 ps. 2x4 12; 20 ps. 2x4 10; 2,100 ft. sheathing, d 1 s; 1,600 ft. rough sheathing; 2,400 ft. siding; 1,750 ft. flooring; 15,000 shingles; 1,400 ft. finishing; 160 ft. 7/8 wainscoting; 140 ft. 3/8 ceiling; 10,000 lath; 3 doors 2 8x6 8, 1 $\frac{3}{8}$ , No. 1; 15 doors 2 6x6, 1 $\frac{3}{8}$ , No. 1; 12 win. 12x28, 4 lt.; 7 win. 12x21, 4 lt.; 6 ps. 2x8 18 d and b; 500 ft. O G base; 860 ft. O G casing; 230 lbs. pl. paper; 220 lbs. tar paper; 2 cel. sash 8x10 3 lt.; 250 ft. 4 $\frac{1}{2}$  in. O G crown molding; 250 ft. 2 $\frac{1}{2}$  in. O G crown molding; 90 ft. large drip; 90 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$  in. nosing; 260 ft. blind stop; 260 ft. parting strip; 260 ft. 1 $\frac{3}{8}$  O G stops; 320 ft. 1 $\frac{3}{4}$  O G stops; 48 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$  in. cap; 48 ft. 3 $\frac{1}{4}$ x1 in. Scotia; 48 ft. 3/4 in. quarter-round; 2 cords stone 15 in. high; 1,500 brick; 28 gal. paint; 18 bbls. lime; 2 bbls. stucco; 5 bu. hair; 1 bbl. cement; nails, 100 lbs. 2od, 200 lbs. 1od, 100 lbs. 8d, 40 lbs. 6d, 60 lbs. 3d com., 70 lbs. 3d fine, 50 lbs. rod casing. 18 mortise locks; 18 pair butts and screws; 5 doz. win. springs;

4 doz. wardrobe hooks; 7 thimbles for flues. Main house 16x26, 16 ft. high; ell for parlor 12x16, 16 ft. high; ell for kitchen 12x14, 9 ft. high. Two bay windows; two porches with hall.

### DESIGN No. 12.

2 ps. 6x8 30; 1 p. 6x8 24; 2 ps. 6x8 20; 6 ps. 6x8 16; 90 ps. 2x8 14; 44 ps. 2x8 16; 45 ps. 2x6 14; 1 p. 4x4 18; 200 ps. 2x4 18; 116 ps. 2x4 16; 54 ps. 2x4 12; 3,150 ft. sheathing, d 1 s; 2,100 ft. rough sheathing; 3,600 ft. siding; 3,360 ft. flooring; 17,000 shingles; 2,000 ft. finishing; 200 ft.  $\frac{1}{8}$  wainscoting; 100 ft.  $\frac{3}{8}$  ceiling; 16,000 lath; 2 doors glazed and transoms; 2 doors 2x6 8, 1 $\frac{3}{8}$ , No. 1; 27 doors 2x6 6, 1 $\frac{3}{8}$  No. 1; 13 win. 12x28, 4 lt.; 11 win. 12x24, 1 lt.; 7 ps. 2x8 18 d and b; 900 ft. O G base; 1,500 ft. O G casing; 350 lbs. pl. paper; 300 lbs. tar paper, 2 cel. sash 8x10, 3 lt.; 290 ft. 4 $\frac{1}{2}$  in. O G crown molding; 280 ft. 2 $\frac{1}{2}$  in. O G crown molding; 110 ft. large drip; 110 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$  in. nosing; 336 ft. blind stop; 336 ft. 1 $\frac{3}{8}$  O G stops; 620 ft. 1 $\frac{3}{4}$  O G stops; 336 parting strips; 60 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$  in. cap; 60 ft.  $\frac{3}{4}$ x1 in. Scotia; 60 ft.  $\frac{3}{4}$  in. quarter-round; 2 cords stone 12 in. high; 2,000 brick; 40 gal. paint; 30 bbls. lime; 3 bbls. stucco; 1 bbl. cement; 8 bu. hair; nails, 200 lbs. 2d, 300 lbs. 1od, 100 lbs. 8d, 60 lbs. 6d, 60 lbs. 3d com.; 100 lbs. 1od casing; 125 lbs. 3d fine; 31 mortise locks; 4 rim locks; 35 pair butts and screws; 6 doz. win. spring bolts; 4 doz. wardrobe hooks; 7 thimbles, 6 in. Main part, 28x30, 18 ft. high; front projection 6x14, 18 ft. high; back part 16x24, 12 ft. high; outside closet with one porch and one vestibule in front.

### DESIGN No. 13.

6 ps. 6x8 16; 2 ps. 6x8 14; 2 ps. 6x8 12; 46 ps. 2x8 16; 32 ps. 2x8 14; 7 ps. 2x8 12; 20 ps. 2x6 16; 10 ps. 2x6 14; 3 ps. 4x4 18; 54 ps. 2x4 20; 81 ps. 2x4 18; 60 ps. 2x4 16; 4 ps. 2x4 14; 69 ps. 2x4 12; 2,500 ft. sheathing, d 1 s; 1,400 ft. rough sheathing; 2,800 ft. siding; 2,100 ft. flooring; 11,000 shingles; 1,500 ft. finishing; 180 ft.  $\frac{1}{8}$  wainscoting; 160 ft.  $\frac{3}{8}$  ceiling; 9,000 lath; 1 glazed door and transom; 2 doors, 2x6 8 1 $\frac{3}{8}$  No. 1; 9 doors, 2x6 6, 1 $\frac{3}{8}$  No. 1; 15 win. 12x28 4 lt.; 9 win. 12x24, 4 lt., 7 ps. 2x8 18 d and b; 450 ft. O G base; 750 ft. O G casing; 280 lbs. pl. paper; 175 lbs. tar paper; 2 cel. sash 8x10; 270 ft. 4 $\frac{1}{2}$  in. O G crown molding; 270 ft. 2 $\frac{1}{2}$  in. O G crown molding; 100 ft. large drip; 100 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$  in. nosing; 340 ft. blind stop; 340 ft. parting strip; 340 ft. 1 $\frac{3}{8}$  O G stop; 250 ft. 1 $\frac{3}{4}$  O G stop; 44 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$  in. cap; 44 ft.  $\frac{3}{4}$ x1 in. Scotia; 44 ft.  $\frac{3}{4}$  in. quarter-round; stair rail, balusters and newel; 2 cords stone 15 in. high; 2,000 brick; 28 gal. paint; 17 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 4 bu. hair; nails, 100 lbs. 2d, 200 lbs. 1od, 50 lbs. 8d, 40 lbs. 6d, 40 lbs. 3d com., 70 lbs. 3d fine, 50 lbs. 1od casing; 12 mortise locks; 14 pair butts and screws; 6 doz. win. springs; 3 doz. wardrobe hooks, 7 thimbles. Main part 16x26, 18 ft. high; front wing 14x16 ft. high; back wing 12x14, 9 ft. high; 3 porches, 1 pantry, 1 hall and 1 bay window.

### DESIGN No. 14.

2 ps. 6x8 30; 4 ps. 6x8 16; 1 p. 6x8 18; 2 ps. 6x6 20; 1 p. 6x6 12; 76 ps. 2x8 16; 38 ps. 2x6 16; 15 ps. 2x6 12; 2 ps. 4x4 18; 130 ps. 2x4 18; 67 ps. 2x4 16; 90 ps. 2x4 12; 2,800 ft. sheathing d 1 s; 1,600

ft. rough sheathing; 3,300 ft. siding; 2,440 ft. flooring; 13,000 shingles; 1,450 ft. finishing; 160 ft.  $\frac{7}{8}$  wainscoting; 140 ft.  $\frac{3}{8}$  ceiling; 9,500 lath; 5 doors, 2 8x6 8,  $\frac{1}{3}\frac{1}{2}$  No. 1; 11 doors, 2 6x6 6,  $\frac{1}{3}\frac{1}{2}$  No. 1; 13 win. 12x28, 4 lt.; 10 win. 12x24, 4 lt.; 7 ps. 2x8 18 d and b; 500 ft. O G base; 800 ft. O. G casing; 300 lbs. pl. paper; 220 lbs. tar paper; 2 cel. sash, 8x10, 3 lt.; 400 ft.  $\frac{1}{2}$  in. batts for lattice; 250 ft.  $4\frac{1}{2}$  in. O G crown molding; 250 ft.  $2\frac{1}{2}$  in. O G crown molding; 110 ft. large drip; 110 ft.  $1\frac{1}{4} \times 2\frac{1}{2}$  in. nosing; 300 ft. blind stop; 300 ft. parting strips; 300 ft.  $1\frac{3}{8}$  O G stop; 280 ft.  $1\frac{3}{4}$  O G stop; 40 ft.  $1\frac{1}{8} \times 2\frac{1}{2}$  in. cap; 40 ft.  $\frac{3}{4} \times 1$  in. Scotia; 40 ft.  $\frac{3}{4}$  in. quarter-round; 2 cords stone 12 in. high. 1,500 brick; 30 gal. paint; 20 bbls. lime; 2 bbls. stucco; 5 bu. hair; 2 bbls. cement; nails, 100 lbs. 2od, 200 lbs. 1od, 100 lbs. 8d, 50 lbs. 6d, 45 lbs. 3d com., 70 lbs. 3d fine; 50 lbs. 1od casing; 16 mortise locks; 16 pr. butts and screws; 6 doz. win. springs; 3 doz. wardrobe hooks; 8 thimbles. Main part 16x30, 18 ft. high; wing on side 16x18, 18 ft. high; front porch and bay window; summer kitchen plastered; with back summer kitchen 12x20, 8 ft. high.

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### DESIGN No. 15.

1 p. 6x8 24; 4 ps. 6x8 20; 2 ps. 6x8 14; 1 p. 6x8 18; 56 ps. 2x8 14; 12 ps. 2x8 18; 2 ps. 4x4 16; 30 ps. 2x4 20; 42 ps. 2x4 18; 80 ps. 2x4 16; 15 ps. 2x4 12; 75 ps. 2x4 10; 1,900 ft. sheathing d 1 s; 1,100 ft. rough sheathing; 2,300 ft. siding; 1,650 ft. flooring; 9,000 shingles; 1,200 ft. finishing; 140 ft.  $\frac{7}{8}$  wainscoting; 60 ft.  $\frac{3}{8}$  ceiling; 9,500 lath; 1 glazed door and transom; 2 doors, 2 8x6 8,  $\frac{1}{3}\frac{1}{2}$  No. 1; 14 doors, 2 6x6 6,  $\frac{1}{3}\frac{1}{2}$  No. 1; 10 win. 12x28, 4 lt.; 7 win. 12x24, 4 lt.; 5 ps. 2x8 18 d and b; 500 ft. O G base; 780 ft. O G casing; 200 lbs. pl. paper; 150 lbs. tar paper; 2 cel. win. 8x10 3 lt.; 200 ft.  $3\frac{1}{2}$  in. O G crown molding; 200 ft.  $1\frac{1}{8} \times 1\frac{1}{4}$  in. Scotia; 80 ft. large drip; 80 ft.  $1\frac{1}{4} \times 2\frac{1}{2}$  in. nosing; 240 ft. blind stop; 240 ft. parting strips; 240 ft.  $1\frac{3}{8}$  O G stop; 300 ft.  $1\frac{3}{4}$  O G stop; 40 ft.  $1\frac{1}{8} \times 2\frac{1}{2}$  in. cap; 40 ft.  $\frac{3}{4} \times 1$  in. Scotia; 40 ft.  $\frac{3}{4}$  in. quarter-round; newel post rail and balusters; 2 cords stone, 16 in. high; 1,000 brick; 24 gal. paint; 17 bbls. lime; 2 bbls. stucco; 1 bbl. cement; 5 bu. hair; nails, 100 lbs. 2od, 150 lbs. 1od, 60 lbs. 8d, 40 lbs. 6d, 30 lbs. 3d com., 50 lbs. 1od casing, 70 lbs. 3d fine; 17 mortise locks; 17 pair butts and screws; 4 $\frac{1}{4}$  doz. win. springs; 2 doz. wardrobe hooks; 7 thimbles 6 in. Main part 14x38, 16 ft. high. Side lean-to, 9x24, 9 ft. high. Porch and bay window.

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### DESIGN No. 16.

5 ps. 6x8 18; 5 ps. 6x8 16; 4 ps. 6x8 24; 50 ps. 2x8 18; 12 ps. 2x8 16; 50 ps. 2x8 14; 25 ps. 2x6 20; 30 ps. 2x6 16; 3 ps. 4x4 18; 10 ps. 2x4 20; 157 ps. 2x4 18; 96 ps. 2x4 16; 2,300 ft. sheathing, d 1s; 1,500 ft. rough sheathing; 2,700 ft. siding; 2,900 ft. flooring; 12,000 shingles; 1,400 ft. finishing; 170 ft.  $\frac{7}{8}$  wainscoting; 200 ft. No. 1  $\frac{3}{8}$  ceiling; 12,000 lath; 1 door glazed and transom; 1 door, 2 8x6 8,  $\frac{1}{3}\frac{1}{2}$  No. 1; 16 doors, 2 6x6 6,  $\frac{1}{3}\frac{1}{2}$  No. 1; 11 win. 12x28, 4 lt.; 13 win. 12x24, 4 lt.; 7 ps. 2x8 18 d and b; 600 ft. O G base; 940 ft. O G casing; 260 lbs. pl. paper; 200 lbs. tar paper; 2 cel. sash 8x10 3 lt.; 180 ft.  $4\frac{1}{2}$  in. O G crown molding; 180 ft.  $2\frac{1}{2}$  in. O G crown molding; 100 ft. large drip; 100 ft.  $1\frac{1}{4} \times 2\frac{1}{2}$  in. nosing; 340 ft.

blind stop; 340 ft. parting strip; 340 ft.  $1\frac{3}{8}$  O G stops; 320 ft.  $1\frac{3}{4}$  O G stops; 50 ft.  $1\frac{1}{8} \times 2\frac{1}{2}$  in. cap; 50 ft.  $\frac{3}{4} \times 1$  in. Scotia; 50 ft.  $\frac{3}{4}$  in. quarter-round; 2 cords stone, 18 in. high; 1,300 brick; 30 gal. paint; 22 bbls. lime; 2 bbls. stucco; 2 bbls. cement; 5 bu. hair; nails, 100 lbs. 2od, 200 lbs. 1od, 100 lbs. 8, 40 lbs. 6d, 40 lbs. 3d com., 50 lbs. 1od casing, 90 lbs. 3d fine; 18 mortise locks; 18 pair butts and screws; 6 doz. window springs; 4 doz. wardrobe hooks; 6 thimbles 6 inch. House 32x32, 18 ft.; pavilion roof with veranda in front.

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### DESIGN No. 18.

5 ps. 6x8 24; 2 ps. 6x8 20; 1 p. 6x8 14; 8 ps. 2x8 16; 14 ps. 2x8 14; 72 ps. 2x8 12; 14 ps. 2x6 14; 4 ps. 4x4 16; 12 ps. 2x4 20; 28 ps. 2x4 18; 136 ps. 2x4 16; 8 ps. 2x4 14; 42 ps. 2x4 12; 22 ps. 2x4 10; 1,450 ft. sheathing, d 1 s; 1,360 ft. rough sheathing; 1,700 ft. siding, 2,000 ft. flooring; 11,000 shingles; 1,200 ft. finishing; 200 ft.  $\frac{3}{8}$  wainscoting; 160 ft.  $\frac{3}{8}$  ceiling; 8,000 lath; 1 door glazed and transom, 1 door, 2 8x6 8,  $1\frac{3}{8}$ ; 13 doors 2 6x6 6,  $1\frac{3}{8}$ ; 5 doors 2 0x6 0,  $1\frac{1}{8}$ ; 11 win. 12x28 4 lt.; 3 win. 12x24 4 lt.; 4 ps. 2x8 18 d and b; 450 ft. O G base; 680 ft. O G casing; 160 lbs. pl. paper; 185 lbs. tar paper; 2 cel. sash 8x10, 3 lt.; 220 ft.  $3\frac{1}{2}$  in. O G crown molding; 220 ft.  $1\frac{1}{8} \times 1\frac{3}{4}$  in. Scotia; 64 ft. large drip; 64 ft.  $1\frac{1}{4} \times 2\frac{1}{2}$  in. nosing; 200 ft. blind stop; 200 ft. parting strips; 200 ft.  $1\frac{3}{8}$  O G stop; 260 ft.  $1\frac{3}{4}$  O G stops; 50 ft.  $1\frac{1}{8} \times 2\frac{1}{2}$  in. cap.; 50 ft.  $\frac{3}{4} \times 1$  in. Scotia; 50 ft.  $\frac{3}{4}$  in. quarter-round; 1 $\frac{1}{2}$  cords stone 12 in. high; 1,000 brick; 22 gal. paint; 16 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 3 bu. hair; nails, 100 lbs. 2od, 200 lbs. 1od, 60 lbs. 8d, 30 lbs. 6d, 40 lbs. 3d com., 50 lbs. 1od casing, 60 lbs. 3d fine; 15 mortise locks; 5 rim locks; 20 pair butts and screws; 3 $\frac{1}{2}$  doz. window springs; 3 doz. wardrobe hooks; 7 thimbles, 6 in. Main part 24x24, 12 ft. high; ell part 14x20, 8 ft. high, with porch.

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### DESIGN No. 19.

2 ps. 6x8 30; 2 ps. 6x8 20; 44 ps. 2x8 20; 16 ps. 2x4 20; 30 ps. 2x4 18; 40 ps. 2x4 16; 98 ps. 2x4 14; 1,500 ft. sheathing, d 1 s; 900 ft. rough sheathing; 1,800 ft. siding; 1,400 ft. flooring; 7,500 shingles; 900 ft. finishing; 150 ft.  $\frac{3}{8}$  wainscoting; 7,500 lath; 2 doors glazed and transoms; 10 doors, 2 6x6 6,  $1\frac{3}{8}$ ; 11 win., 12x28 4 lt.; 4 win. 12x24 4 lt.; 4 ps. 2x8 18, d and b; 170 lbs. pl. paper; 125 lbs. tar paper; 400 ft. O G base; 600 ft. O G casing; 2 cel. sash, 8x10 3 lt.; stair rail, newel post and balusters; 120 ft.  $3\frac{1}{2}$  in. O G crown molding; 120 ft.  $1\frac{1}{8} \times 1\frac{3}{4}$  in. Scotia; 70 ft. large drip; 70 ft.  $1\frac{1}{4} \times 2\frac{1}{2}$  in. nosing; 203 ft. blind stop; 200 ft. parting strip; 200 ft.  $1\frac{3}{8}$  O G stops; 200 ft.  $1\frac{3}{4}$  O G stops; 40 ft.  $1\frac{1}{8} \times 2\frac{1}{2}$  in. cap; 40 ft.  $\frac{3}{4} \times 1$  in. Scotia; 40 ft.  $\frac{3}{4}$  in. quarter-round; 1 cord stone 12 in. high; 1,000 brick; 17 gal. paint; 14 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 4 bu. hair; nails, 60 lbs. 2od, 100 lbs. 1od, 50 lbs. 8d, 30 lbs. 6d, 25 lbs. 3d com., 40 lbs. 1od casing, 60 lbs. 3d fine; 12 mortise locks; 12 pr. butts and screws; 3 $\frac{1}{2}$  doz. win. springs; 2 doz. wardrobe hooks; 6 thimbles, 6-in. House 20x30, 14 ft. high.

## DESIGN NO. 20.

2 ps. 6x8 32; 2 ps. 6x8 16; 6 ps. 6x8 14; 23 ps. 2x8 16; 18 ps. 2x8 14; 12 ps. 2x8 12; 25 ps. 2x6 16; 22 ps. 2x6 14; 2 ps. 4x4 16; 58 ps. 2x4 18; 16 ps. 2x4 16; 40 ps. 2x4 14; 50 ps. 2x4 12; 42 ps. 2x4 10; 1,460 ft. sheathing, d 1 s; 1,500 ft. rough sheathing; 1,800 ft. siding; 1,500 ft. flooring; 12,000 shingles; 1,000 ft. finishing; 180 ft. wainscoting; 160 ft.  $\frac{3}{8}$  ceiling; 5,000 lath; 4 doors, 2 8x6 8, 1 $\frac{3}{8}$ , No. 1; 7 doors, 2 6x6 6, 1 $\frac{3}{8}$ , No. 1; 13 win. 12x28 4 lt.; 4 ps. 2x8 18, d and b; 250 ft. O G base; 500 ft. O G casing; 160 lbs. pl. paper; 200 lbs. tar paper; 2 cel. sash, 8x10 3 lt.; 230 ft.  $\frac{3}{2}$  in. O G crown molding; 230 ft. 1 $\frac{1}{2}$ x1 $\frac{1}{4}$  in. Scotia; 70 ft. large drip; 70 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$  in. nosing; 180 ft. blind stop; 180 ft. parting strip; 180 ft. 1 $\frac{3}{8}$  O G stop; 200 ft. 1 $\frac{3}{4}$  O G stop; 148 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$  in. cap; 48 ft.  $\frac{3}{4}$  in. quarter-round; 48 ft.  $\frac{3}{4}$ x1 in. Scotia; 1 $\frac{1}{2}$  cords stone, 12 in. high; 1,000 brick; 18 gal. paint; 11 bbls. lime; 1 bbl. stucco; 2 bu. hair; 1 bbl. cement; nails, 60 lbs. 2d., 140 lbs. 1d., 50 lbs. 8d., 30 lbs. 6d., 45 lbs. 3d com., 40 lbs. 3d fine, 50 lbs. 1d casing; 11 mortise locks; 11 pr. butts and screws; 3 $\frac{1}{4}$  doz. win. springs; 2 doz. wardrobe hooks; 3 thimbles. House 16x32, 2 wings, each 14x14, 9 ft. high; two porches and outside pantry.

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## DESIGN NO. 21.

2 ps. 6x8 28; 2 ps. 6x8 18; 42 ps. 2x8 18; 8 ps. 2x4 20; 28 ps. 2x4 18; 22 ps. 2x4 16; 56 ps. 2x4 14; 66 ps. 2x4 12; 1,400 ft. sheathing, d 1 s; 800 ft. rough sheathing; 6,500 shingles; 1,600 ft. siding; 1,200 ft. flooring; 700 ft. finishing; 140 ft.  $\frac{7}{8}$  wainscoting; 6,500 lath; 2 doors 2 8x6 8, 1 $\frac{3}{8}$ , No. 1; 7 doors 2 6x6 6, 1 $\frac{3}{8}$ , No. 1; 7 win. 12x28 4 lt.; 2 win. 12x24 4 lt.; 3 ps. 2x8 18, d and b; 320 ft. O G base; 400 ft. O G casing; 160 lbs. pl. paper; 110 lbs. tar paper; 2 cel. sash; molding, 110 ft. No. 2225, 110 ft. No. 2320 44 ft. large drip; molding, 44 ft. No. 2632; 120 ft. blind stop; 120 ft. parting strip; molding, 120 ft. No. 2374, 160 ft. No. 2380, 36 ft. No. 2450, 36 ft. No. 2319, 36 ft.  $\frac{1}{4}$  round No. 2326; 1 cord stone 14 in. high; 500 brick; 16 gal. paint; 12 bbls. lime; 1 bbl. stucco; 1 bbl. cement; 3 bu. hair; nails, 50 lbs. 20 d., 100 lbs. 10 d., 40 lbs. 8d., 25 lbs. 6d., 25 lbs. 3d com., 50 lbs 3d fine, 40 lbs. 1d casing; 9 mortise locks; 9 pr. butts and screws; 2 $\frac{1}{4}$  doz. win. springs; 2 doz. wardrobe hooks; 4 thimbles, 6-in. House, 18x28, 14 ft. posts.

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## DESIGN NO. 22.

2 ps. 6x8 22; 2 ps. 6x8 24; 6 ps. 6x8 16; 110 ps. 2x8 16; 36 ps. 2x6 16; 100 ps. 2x4 20; 48 ps. 2x4 18; 66 ps. 2x4 16; 128 ps. 2x4 12; 13 ps. 2x4 10; 3,100 ft. sheathing, d 1; 2,240 ft. rough sheathing; 3,600 ft. siding; 3,230 ft. flooring; 18,000 shingles; 1,800 ft. finishing; 210 ft.  $\frac{7}{8}$  wainscoting; 160 ft.  $\frac{3}{8}$  ceiling; 12,500 lath; 2 doors, glazed and transoms; 2 doors 2 8x6 8, 1 $\frac{3}{8}$ ; 17 doors 2 6x6 6, 1 $\frac{3}{8}$ ; 14 win. 12x32, 4 lt.; 11 win. 12x28, 4 lt.; 7 ps. 2x8 18 d and b; 650 ft. O G base; 1,000 ft. O G casing; 345 lbs. pl. paper; 310 lbs. tar paper; 2 cel. sash 8x10, 3 lt.; 280 ft. 4 $\frac{1}{2}$  in. crown molding; 280 ft. 2 $\frac{1}{2}$  in. O G crown molding; 120 ft. large drip; 120 ft. 1 $\frac{1}{4}$ x2 $\frac{1}{2}$  in. nosing; 350 ft. blind stop; 350 ft. parting strip; 350 ft. 1 $\frac{3}{8}$  O G stop; 360 ft. 1 $\frac{3}{4}$  O G stop; 60 ft. 1 $\frac{1}{8}$ x2 $\frac{1}{2}$  in. cap; 60 ft.  $\frac{3}{4}$  in. quarter-round; 60 ft.  $\frac{3}{4}$ x1 in. Scotia; 3 cords

stone 16 in. high; 25,000 brick; 37 gal. paint; 25 bbls. lime; 2 bbls. stucco; 5 bu. hair; 2 bbls. cement; nails, 150 lbs. 2od, 300 lbs. 1od, 100 lbs. 8d, 60 lbs. 6d, 70 lbs. 3d com., 100 lbs 3d fine, 100 lbs. 1od casing; 21 mortise locks; 21 pr. butts and screws; 6½ doz. win. springs; 4 doz. wardrobe hooks, 8 thimbles. Main part 16x26; ell part 16x20, 20 ft. high; back part 16x16, 12 ft. high; three porches, vestibule, pantry and bath-room on the outside.

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### DESIGN No. 23.

200 ps. 2x4 20s for studding; 13 ps. 8x8 20s, for sills; 45 posts 8x8 6 ft.; 5 trusses 8x8, 35 ft. for span; 192 ps. 2x6 10s for rafters; 2,400 ft. rough sheathing for side; 2,000 ft. rough sheathing for roof; 3,000 ft. planed siding; 2,600 ft. planed flooring; 2,900 shingles; 200 ft. water table; 47 ps. joist, 2x10 18s; 250 ft. molding for outside; 60 ft. of cresting; 150 ft. corner boards; 650 yds. of lath and plaster; 8 double windows, complete; 2 sets double doors and 2 single, complete; 300 ft. of 10 in. base; pews extra; 2,000 brick for chimneys.

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### DESIGN No. 24.

2 ps. 6x8 32; 3 ps. 6x8 30; 6 ps. 6x8 22; 6 ps. 6x8 20; 6 ps. 6x6 12; 6 ps. 6x6 14; 8 ps. 6x6 16; 6 ps. 6x6 20; 62 ps. 2x6 26; 34 ps. 2x6 20; 8 ps. 2x6 18; 8 ps. 2x6 16; 66 ps. 2x6 14; 40 ps. 2x10 12; 76 ps. 2x10 14; 60 ps. 2x10 20; 25 ps. 4x4 16; 65 ps. 2x4 12; 52 ps. 2x4 16; 40 ps. 2x4 20; 4,800 ft. 2-in. plank; 8,100 ft. ship lap; 1,000 ft. stock, d 1 s; 8,800 ft. sheathing; 40,000 shingles; 4,600 ft. O G batts; 6 win. 8x10 12 lt. pl.; nails, 100 lbs. 3od, 200 lbs. 2od, 500 lbs. 1od, 25 lbs. 6d; 150 lbs. 3d, 25 lbs. 8d clinch; strap hinges, 5 pr. 8-in., 9 pr. 10-in.; 12 hooks and staples; 5 hasps and staples; 1 cord stone for pillars; 28 gal. paint. Barn, main part 40x60; 14 ft. high; ell or shed, 30x40; 10 ft. high; open front.

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### DESIGN No. 25.

3 ps. 6x8 28; 2 ps. 6x8 20; 13 ps. 2x10 20; 15 ps. 2x8 20; 2 ps. 4x4 16; 10 ps. 2x4 20; 8 ps. 2x4 18; 16 ps. 2x4 16; 80 ps. 2x4 14; 1,120 ft. 2-in. plank; 2,300 ft. ship lap; 250 ft. stock, d 1 s; 1,300 ft. rough sheathing; 7,000 shingles; 1,500 ft. O G batts; 4 win. 10x12, 8 lt., pl.; ¼ cord stone; 1 pr. rollers and 16 ft. track; 3 pr. 10-in. strap hinges; 3 hooks and staples; 1 hasp and staple; nails, 60 lbs. 2od, 200 lbs 1od, 25 lbs. 6d, 25 lbs. 3d coarse, 15 lbs. 8d clinch; 10 gal. paint. Barn, 20x28, 14 ft.

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### DESIGN No. 26.

200 lineal ft. 8x10 for main sills; 150 lineal ft. 8x8 for cross sills; 150 lineal ft. 6x6 for cross girths; 16 ps. 8x8 16s for posts; 200 lineal ft. 6x8s for plates; 200 lineal ft. 6x8s for girths; 52 ps. 2x4 10s for studs for bins, stables, etc.; 20 ps. 2x8 12s for studs between carriage-room

and mow; 20 ps. 2x6 12s for studs between carriage-room and corn-crib; 20 ps. 2x6 16s for studs for end of corn-crib; 24 ps. 2x8 16s for floor joists for carriage-room and corn-crib; 24 ps. 2x8 12s for floor joists for drive-way; 24 ps. 2x8 8s (16s) for floor joists for bins; 24 ps. 2x8 20s for floor joists for stable; 2 ps. 4x4 16s, for stringer under stable; 2,800 ft. 2x8 joists under floor of loft, which is over stable, bins, carriage-room and corn-crib; 72 ps. 2x6 22s (or 20s) for rafters; 36 ps. 2x4 12s for collar beams; 3,200 ft. dressed dimension boards for siding; 800 ft. 3-in. O G battens; 540 ft. flooring for doors; 2,500 ft. common boards for roofing; 30,000 shingles; 3,000 ft. 2-in. plank; 1,150 ft. matched dimension boards for floor of loft; 600 ft. matched dimension boards for bins; 350 ft. 1½-in. plank for mangers, etc.; 360 ft. common boards for partition between carriage-room and hay mow; 270 ft. 3-in. battens between carriage-room and crib; 2 ps. 2x4 16s for ladder posts in front of mow; 136 lineal ft. 4x4s for braces; 135 ft. dressed dimension boards for ventilator shaft; 2 windows, 8-light, 8x12, 2 cellar sash, 3-light, 10x12, over small doors (not indicated in cuts).

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### DESIGN No. 27.

For sills: 2 ps. 8x10 34 0; 2 ps. 8x10 22 0; 1 ps. 8x10 16 0. For girders: 3 ps. 10x10 20 0; 2 posts 8x8 14 0. For joists: 46 ps. 2x10 22 0; 48 ps. 2x10 14 0; 12 ps. 2x10 18 0; 20 ps. 2x8 22 0; 24 ps. 2x8 14 0; 25 ps. 2x8 12 0; 120 ps. 2x4 22 0; 230 ps. 2x4 20 0; 36 ps. 2x4 16 0; 16 ps. 2x4 14 0; 27 ps. 2x4 12 0; 6 ps. 2x10 20 0; 8 ps. 2x10 14 0. Six 6 in. x 6 ft. cedar posts; 5,300 ft. com. bds. d 1 s; 24,000 A shingles; 1,000 shingles, cut corners; 3,600 ft. siding; 335 yards No. 2 wool felt; 900 lineal ft. 2x2 bridging; 275 lineal ft. 1x6 ribbon bands; 23 ps. 14 and 23 ps. 16 ft. 1¼x5, beaded corner boards; 3,000 ft. 5½ in. flooring; 1,500 ft. 5½ in. fencing d & m; 14 ps. 6x16 o ridge boards; 200 lin. ft. 5" crown mold, No. 2,201 Standard Molding Book; 200 lin. ft. 3" facie; 200 lin. ft. 2" bed mold No. 2,577 Standard Molding Book; 200 lin. ft. 12" soffit; 200 lin. ft. 14" frieze; 160 lin. ft. 1¼x7 water table; 1 staircase, 22 ft. 3x4 rail; 32—2½" turned balusters; 1—7" square newel post; 3 flights back stairs. Doors, 1¾" sunk mold, chamfered edges; 2—2 4x7 0; 1—2 8x7 6; 2—3 0x8 0; 3—2 8x7 6; 3—2 4x7 6; 2—2 8x7 6; 1—2 8x7 6. Doors, 1¾ P G mold; 1—2 4x7 0; 1—2 6x7 0; 1—2 8x7 0; 4—2 8x7 0; 5—2 4x7 0; 1—2 8x7 0; 1—2 6x7 0; 1—3 0x6 6; 1 transom sash, 1¾", 1 light, 14x52; 4 transom sash, 1¾", 4 lt. 12x28; 1 plank frame and sash, 1¾", 1 lt. 14x26; 3 do. 6 lt. 14x14; 1 do. 2 lt. 12x14.

#### WINDOW FRAMES AND SASH 1¾" THICK.

2 mullion, 2 lt. 28x38; 2 window 2 lt. 28x28; 2 window, 2 lt. 18x38; 1 mullion, 4 lt. 16x38; 1 window, 4 lt. 15x38; 1 window, 4 lt. 14x38; 1 window, 2 lt. 14x38; 1 mullion, 4 lt. 28x36; 4 window, 8 lt. 28x36; 2 window, 4 lt. 26x36; 2 window, 8 lt. 14x36; 1 window, 2 lt. 15x36; 2 window, 4 lt. 16x36; 3 window, 6 lt. 20x36; 1 oval, 1 lt. 18x36; 1 round, 1 lt. 20x20; 1 window, 4 lt. 12x24; 1 window, 2 lt. 18x20.

450 lin. ft. ¾x5 O G casings; 600 lin. ft. 1 ½x6 door frames; 650 lin. ft. ¾x5½ O G casings and moldings; 250 lin. ft. ¾x8 carved plinth; 250 lin. ft. ¾x2½ molding, No. 2,994 Standard Molding Book; 250 lin. ft. ¼" round molding; 350 lin. ft. ¾x5½ pine, d m & b; 50 lin. ft. ¾x1½ molding; 38 ps. 1 ½x5½x16 o beaded and chamfered casings; 55 head blocks, 1 ¾x5½x11 with turned rosettes; 38 plinth blocks, 1 ¾x5½x10½ molded and beaded; 160 lin. ft. ¾x5 O G plinths; 190

lin. ft.  $\frac{7}{8} \times 8$  coved, beaded plinths, No. 3,076 Standard Molding Book; 190 lin. ft.  $2\frac{1}{2}$ " base mold, No. 3,075 Standard Molding Book; 190 lin. ft.  $\frac{1}{4}$ " round molding, No. 2,324 Standard Molding Book; 24 lin. ft.  $\frac{7}{8} \times 16$  shelving; 18 lin. ft.  $\frac{7}{8} \times 18$  shelving; 100 lin. ft.  $\frac{7}{8} \times 12$  shelving; 100 lin. ft.  $\frac{7}{8} \times 3$  beaded strips; 120 lin. ft.  $1\frac{1}{8} \times 6$  molded stools, No. 2,423 Standard Molding Book; 120 lin. ft. of  $\frac{7}{8} \times 5$  O G apron, No. 2,455 Standard Molding Book; 120 lin. ft. of  $\frac{7}{8} \times 2$  O G apron mold, No. 2,397 Standard Molding Book; 2 sets of drawers, 2' 6" wide; 65 lin. ft.  $1\frac{1}{8} \times 7$  molded belt; 53 lin. ft.  $1\frac{3}{4}$ " roof cresting; 17 pairs of inside blinds  $1\frac{1}{8}$ " thick; 11 pairs outside blinds  $1\frac{1}{8}$ " thick; 38 ps.  $1\frac{1}{8} \times 6 \times 16$  o outside beaded casings; 8 brackets for hoods; 4 brackets for bay window; 80 lin. ft.  $1\frac{1}{8} \times 6$ ; 6 brackets for porch; 850 lin. ft.  $\frac{1}{2} \times 1\frac{3}{8}$  O G stops, No. 2,381 Standard Molding Book; 3 ps.  $1\frac{3}{8} \times 12 \times 16$  o beaded verge board; 35 turned rosettes; 6 ps.  $1\frac{3}{8} \times 10 \times 12$  o; 20 turned balusters,  $2 \times 2 \times 10$  porch; 26 turned balusters,  $3 \times 3 \times 18$ ; 30 lin. ft. molded cornice; 4 7-inch turned posts; 3 molded and beaded newel posts, 8x8; 25 lin. ft.  $3\frac{1}{2} \times 6$  beaded rails; 80 lin. ft.  $\frac{7}{8} \times 4$  b w thresholds; 9 black walnut  $1\frac{1}{8}$ " turned angle beads.

#### HARDWARE.

200 lbs. 6 penny common nails; 3 kegs 20 penny spikes; 1 keg 10 penny casing nails; 1 keg 6 penny casing nails; 2 kegs 10 penny common nails; 125 lbs. shingle nails; 116 sash weights; 10 hanks of Italian cable sash cord; 23 black walnut rubber tipped bennpers; 42 Berlin bronze sash lifts; 14 japanned sash lifts; 23 Morris' patent Berlin bronze sash locks; 5 japanned sash locks; 6 pair Berlin bronze drawer pulls; 4 Berlin bronze spring transom locks; 8 swivel springs; 22 pair blind hinges, catches and fastenings; 50 japanned hat and cloak hooks; 1 set Warner's sheaves and hardwood track; 1 Branford's mortise sliding door lock; 1 pr. Berlin bronze cups; 15 Branford's mortise locks; 9 Branford's mortise latches; 1 rim lock; 1 Branford's mortise 3-tumbler front door lock and night latch; 9 pair  $2\frac{1}{2}$  in. jet knobs and bronze trimmings; 16 pair  $2\frac{1}{4}$  in. white porcelain knobs and plated trimmings, all locks to have brass face and striking plates; 1  $2\frac{1}{2}$  in. jet bell pull and bronze trimmings, 60 ft. copper wire and 4 cranks; 138 pair 2 in. butts and back flaps and screws; 1 flush bolt 12 in. long; 1 flush bolt 18 in. long; 2 mortise thumb latches; 1 pair trap door hinges and padlock; 27 pair  $4\frac{1}{2} \times 4\frac{1}{2}$  loose pin butts; 5 pair  $3 \times 3$  butts; 5 3-in. barrel bolts; 1 6-in. barrel bolt; 1 pair  $4 \times 4$  butts; 59 squares of 2 coat painting.

#### MASON WORK.

190 yards excavating; 14 cords rubble stone; 4,000 common brick; 1,867 yards plastering; 2,700 lath; 5 window sills,  $4 \times 8 \times 3$  4 (cut stone.)

#### DESIGN No. 28.

Lumber: 7 ps.  $8 \times 8$  32; 8 ps.  $8 \times 8$  26; 6 ps.  $6 \times 8$  26; 2 ps.  $8 \times 8$  24; 14 ps.  $8 \times 8$  22; 100 ps.  $2 \times 6$  22; 2 ps.  $6 \times 6$  20; 5 ps.  $4 \times 6$  20; 2 ps.  $4 \times 4$  20; 7 ps.  $2 \times 8$  20; 4 ps.  $8 \times 8$  18; 2 ps.  $6 \times 8$  18; 16 ps.  $4 \times 4$  18; 4 ps.  $8 \times 8$  16; 9 ps.  $6 \times 6$  16; 11 ps.  $4 \times 6$  16; 19 ps.  $4 \times 4$  16; 14 ps.  $2 \times 8$  16; 8 ps.  $2 \times 6$  16; 28 ps.  $2 \times 4$  16; 35 ps.  $2 \times 12$  16; 3 ps.  $6 \times 6$  14; 2 ps.  $4 \times 6$  14; 10 ps.  $4 \times 4$  14; 30 ps.  $2 \times 8$  14; 2 ps.  $2 \times 6$  14; 2 ps.  $8 \times 8$  12; 4 ps.  $6 \times 6$  12; 10 ps.  $4 \times 6$  12; 3 ps.  $4 \times 4$  12; 126 ps.  $2 \times 8$  12; 14 ps.  $2 \times 6$  12; 18 ps.  $2 \times 4$  12; 7 ps.  $2 \times 4$  12; 55 ps.  $2 \times 10$  12; 28,000 shingles; 2,160 ft. 16 ft. com. boards; 1,400

ft. 14 ft. com. boards; 800 ft. 16 ft. fencing; 2,730 ft. 16 ft. fencing flooring; 175 ft. 14 ft. fencing flooring; 350 ft. 12 ft. fencing flooring; 2,000 ft. 14 ft. D stock, s 1 s; 1,152 ft. 18 ft. D stock, s 1 s; 3,000 ft. 16 ft. D stock, s 1 s; 5,000 lineal ft. 2½ in. O G battens; 6 windows, 9x12, 12 lt., com. glazd.; 4 sash, 9x12, 5-lt., glazd. hardware; 10 rods 9 6x $\frac{3}{8}$ ; 50 lbs. 3od spikes; 100 lbs. 2od spikes; 25 lbs., 8d clinch nails; 125 lbs. 4d com. nails; 400 lbs. rod com.; 4 pairs large door hangers, No. 2; 6 pairs small door hangers, No. 1; 8 pairs 10 in. strap hinges; 7 large hook hasps and staples; 12 pairs 6 in. T hinges with screws; 100 ft. iron track with screws; *a*—Outside sill; *b*—manure drop, cut in joists 4x18; *c*—4x6 supports for joists; *d*—stanchion; *e*—mangers; *f*—meal bin; *g*—cross sill; *h*—joist for floor.

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## DESIGN No. 34.

### OAKLAND COTTAGE.

30 cedar posts 6 ft. long; 140 lineal ft. 8x8 sills; 28 joist 2x18, 16 ft long, first story; 15 joist 2x8, 16 feet long, first story; 13 joist 2x8, 12 ft. long, first story; 28 joist 2x8, 16 ft. long, first story; 15 joist 2x8, 16 ft. long, first story; 13 joist 2x8, 12 ft. long, first story; 16 collars 2x6, 18 ft. long, in attic; 140 studs 2x4, 12 ft. long, outside walls; 90 studs•2x4, 9 ft. long, partition studs; 92 rafters 2x4, 12 ft. long; 1,900 ft. sheathing boards, 1x6; 1,100 ft. roof boards, common, 1 inch; 10,000 pine shingles and nails; 1,800 ft. 6 inch siding; 700 ft. 1x4 beaded and matched ceiling; 19 square ft. paper; 260 lineal ft. 1x8 molded base; 1,000 ft. 1x6 common flooring, pine; 800 ft. 1x6 fencing floor in attic; 11 windows, frames, sash, casings, etc.; 12 doors, frames, casings, hardware, etc.; 1 flight stairs to attic; front porch, etc.; sink, back steps, bells and tin work; 2 attic dormers, 1 half-circle window, water table, cornices, bells, corner boards, etc.; bridging, plates, braces, etc.; 1 fancy front gable; 2 chimneys, brick and mortar; 280 yards two-coat plastering; painting, glass, etc.

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## DESIGN No. 36.

### CANADIAN COTTAGE.

133 lineal ft. 8x8 sills, 665 ft.; 50 8-inch cedar posts; 150 2x4 studs 16 ft. long, 1,650 ft.; 180 2x4 studs 12 ft. long; 95 2x4 rafters 12 ft. long; 60 2x10 joists 24 ft. long; 13 2x8 joists 12 ft. long; 32 2x4 ceiling joists 24 ft. long; 13 2x4 ceiling joists 12 ft. long; 2,000 fr. roof bo rds; 2,360 ft. sheathing boards; 700 ft. beaded and matched; 18,000 A shingles; 2,800 ft. 6-inch siding; 18 window frames, sash, casing and hardware; 17 doors, frames, jambs, casing and hardware; one flight stairs, front gable; outside steps; 2 chimneys, foundations and materials; 480 ft. base and mold; 145 ft. outside cornice; 135 feet water table and belt course; 6 closets, shelves and hooks; 2,000 feet 1x6-inch flooring; glass and painting; 628 yds. 2-coat plastering; fancy shingles, cresting and finials; 23 squares sheathing paper; plates, bridging blocks, etc.; hardware, nails, etc.

## DESIGN No. 38.

### FERNWOOD COTTAGE.

35 cedar posts 6 ft. long; 170 lineal ft. 8x8 sills; 44 2x8 joist 14 ft. long, first floor; 20 2x8 joist 16 ft. first floor; 44 2x8 joist 14 ft. long, second floor; 20 2x8 joist 16 ft. long, second floor; 20 2x4 collar beams 8 ft. long, attic; 138 2x4 outside studs 12 ft. long; 70 2x4 partition studs 9 ft. long; 100 2x4 rafters, 12 ft. long; 1,600 ft. com. boards for roof; 14,000 pine shingles, nails, etc.; 1,500 ft. 6 inch siding; 300 ft. 1x4 beaded and matched ceiling; 1,300 ft. 1x6 sheathing (fencing No. 2); 1,400 ft. paper and nails; 260 lineal ft. 1x8 molded base; 275 yards plastering; 1,000 ft. 1x6 pine flooring; 2 chimneys—brick and mortar; 12 windows, sash, casings, hardware, etc.; 9 doors, frames, hardware, etc.; 1 flight stairs to attic; 800 ft. fencing floor in attic; front porch: sink, back steps, bells and tin work; front dormer, water-table, corner boards, etc., painting, glass and glazing; main cornice; bridging, plates and braces.

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## DESIGN No. 39.

### BUENA VISTA COTTAGE.

32,560 brick in foundation; 48 yards cubic excavation, 25 cts.; 5,040 brick in chimneys above footing; 190 ps. 2x4 studs, 16 ft. long, outside; 87 ps. 2x4 partition studs, 12 feet long; 20 ps. 2x8 partition studs, 12 ft. long; 48 ps. 2x3 partition studs, 12 feet long; 14 ps. 2x4 gable studs, 12 feet long; 24 ps. 2x10 joist, 16 ft. long; 25 ps. 2x10 joist, 18 ft. long; 22 ps. 2x10 joist, 14 ft. long; 16 ps. 2x10 joist, 12 ft. long; 16 ps. 2x10 joist, 20 ft. long; 10 ps. 2x10 joist, 10 ft. long; 92 lineal ft. 6x8 cross sills; 142 ps 2x10 attic joist, 14 ft. long; 90 ps. 2x6 rafters, 14 ft. long; 50 ps. 2x6 rafters, 22 ft. long; 12 ps. 2x6 rafters, 8 ft. long; 32 ps. 2x6 rafters, bay, 12 ft. long; 40 ps. 2x4 rafters, dormers, 8 ft. long; 16 ps. 2x4 rafters, porch, 8 ft. long; 20 ps. 2x6 rafters, deck, 12 ft. long; 8 ps. 2x6 rafters, deck, 6 ft. long; 30 ps. 2x6 collar beams, 16 ft. long; 20 ps. 2x6 collar beams, 18 ft. long; 10 ps. 6x8 sills on brick wall, 18 ft. long; 50 ps. 2x4 14 ft. long plates; 30,000 shingles, walls and roof; 2,000 ft. 1x6 surfaced roof-boards; 4,300 ft. 1x6 flooring (pine); 2,500 ft. 1x6 matched sheathing; 3,000 ft. 6-inch siding; 186 ft. water-table, molding and labor; 186 ft. sill course, molding and labor; 200 ft. main cornice, molding and labor; 1,200 ft. 1x6 beaded ceiling, outside; 55 lineal ft. of wood roof cresting; 260 ft. tin roofing on deck, 10 cts.; flashings, tin work, conductors, etc.; frames, sash, labor and lumber, three dormers; cornice, moldings, panels, etc., front gable; all work and material to front portico; cornice, panel work, labor and material of 3 bay windows and cresting on same; rear porch complete, front and rear steps; panels and labor on octagon tower; triple frame in front gable and finish; 6 interior fancy wood arches, complete; one flight stairs to attic, labor, etc.; 20 windows, frames, sash, labor, etc.; 13 doors, jambs, hardware, labor, etc.; fitting up sink and bath-room work; fitting up 6 closets, shelves and hooks, etc.; 400 ft. of molded 1x9 base; corner-boards, moldings, etc., not before estimated; 670 yards 2-coat plastering; 25 squares of felt wall paper; painting, glass and glazing; plumbing, gas and sewerage; bells, tubes, etc.

## DESIGN No. 40.

KENWOOD COTTAGE.

217 yards excavation; 15,000 brick in cellar wall; 5,600 brick in chimneys above cellar wall; 858 yards of plastering, 2-coat; painting, glass, glazing, plumbing, gas, sewers, fixtures, etc.; rough cast work on front of building; 12 pieces 6x8 sills on brick walls, 12 ft. long; 15 pieces 2x10 joist, 1st floor, 14 ft. long; 32 pieces 2x10 joist, 1st floor, 8 ft. long; 20 pieces 2x10 joist, 1st floor, 12 ft. long; 26 pieces 2x10 joist, 1st floor, 13 ft. long; 26 pieces 2x10 joist, 2d floor, 14 ft. long; 6 pieces 2x10 joist, 2d floor, 15 ft. long; 8 pieces 2x10 joist, 2d floor, 10 ft. long; 16 pieces 2x10 joist, 2d floor, 14 ft. long; 16 pieces 2x4 joist, ceiling, 14 ft. long; 16 pieces 2x4 joist, ceiling, 10 ft. long; 14 pieces 2x4 joist, ceiling, 14 ft. long; 26 pieces 2x4 joist, ceiling, 14 ft. long; 12 pieces 2x4 joist, ceiling, 8 ft. long; 14 pieces 2x4 joist, ceiling, 8 ft. long; 16 pieces 2x4 joist, rafters, 30 ft. long; 16 pieces 2x4 joist, rafters, 26 ft. long; 6 pieces 2x4 joist, rafters, 12 ft. long; 24 pieces 2x4 joist, rafters, 14 ft. long; 30 pieces 2x4 plates, 14 ft. long; 343 studs for partitions, 2x4, 12 ft. long; 10 studs for outside walls, 2x4, 14 ft. long; 70 studs for outside walls, 2x4, 30 ft. average; 27 studs for outside walls, 2x4, 12 ft. long; 27 studs for outside walls, 2x4, 18 ft. long; 2,500 ft. of 1x6 fencing for sheathing, laid; 1,800 ft. of 1x6 fencing for roofing, laid; 17,000 pine, cedar or cypress shingles, laid; tin work, conductors, flashings, etc.; 3,000 ft. of 6 in. O.G. siding, laid; cornice, corner-boards, moldings, belts, water-tables, etc.; 300 ft. 1x4 beaded and matched ceiling; front porch, outside steps, etc.; 21 windows, sash, casings, etc.; 550 ft. base-board and mold; 24 doors, casings, hardware, etc.; one flight stairs, oak rail, balusters, etc.; 6 closets, shelves, hooks, strips, etc.; bath-room, store closet, kitchen sink, bells, cistern, etc.; 2,800 ft. 1x6 flooring, C quality; 2,500 ft. of building paper, outside.

### HOW TO FIND THE POSITION OF THE SUN AT ANY TIME OF THE DAY.

A simple means of determining the position of the sun at any time of the day is by placing the point of a knife-blade or sharp lead pencil on the thumb nail, which will cast a shadow directly from the sun, no matter how thick the snow or fog is. Try it.

## SHRINKAGE OF CASTINGS.

In making allowance for shrinkage in casting, pattern makers understand that different shapes will shrink differently. The standard table of allowance for shrinkage in use in the best shops in the country is as follows:

For Loam Castings	-	-	1-12	inch per foot.
" Green Sand Castings	-	-	1-10	" "
" Dry " "	-	-	1-10	" "
" Brass Castings	-	-	3-16	" "
" Copper "	-	-	3-16	" "
" Bismuth "	-	-	5-32	" "
" Tin "	-	-	1-4	" "
" Zinc "	-	-	5-16	" "
" Lead "	-	-	5-16	" "